

# Water/Wastewater Environmental

## PROGRAM 2016

*Products  
to support*  
**Water/Wastewater  
Sampling and  
Monitoring  
and Environmental  
Testing**

**Thomas**  
Scientific

**We Believe You Are Important**  
— *How Can We Help?*



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## Welcome to Thomas Scientific!

Thomas Scientific enjoys a long and prosperous history dating back to 1900. We have developed an extensive network of over 3000 branded manufactures of products, available at [Thomassci.com](http://Thomassci.com), supporting all corners of science research including life science research and development, quality assurance and quality control, production and also facilities maintenance.

Thomas Scientific's guiding principle is "We Believe You are Important" and this belief guides our every action and investment.

Thomas Scientific is a full line stocking distributor and we have developed a broad portfolio of products to support your operational needs including:

1. Supplies and Consumables
2. Equipment, Instruments and Furniture
3. Chemicals and Reagents
4. Laboratory and Facility Safety and Apparel

If you have a need for a product that is not in our current portfolio let us know...we can source it and add it for your convenience.

Thomas Scientific operates as a classic distributor with a robust sales team to fully support your needs, as well as an online procurement operation in North America and Internationally for Laboratory Supplies and Consumables, Equipment, Instruments and Furniture, as well as, Chemicals and Laboratory Safety and Apparel. Our website, [ThomasSci.com](http://ThomasSci.com), operates as a wholesale and retail Website. Thomas Scientific serves Science through [ThomasSci.com](http://ThomasSci.com) and focuses on selection, price, and convenience.

Get started with [ThomasSci.com](http://ThomasSci.com) for increase selection, best pricing in the industry and maximum convenience. [ThomasSci.com](http://ThomasSci.com) offers you easy online registration, is a valuable research and information center for selecting the best product for your Science, and is above all, convenient!

- In addition to our website, if you would like a sales representative to be assigned to your account, call us at 1-800-345-2100 and ask for your sales representative today!

Please feel free to contact me with any questions or concerns you may have.

Thank you again for your interest in Thomas Scientific. We look forward to assisting you again soon.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard Drew'.

Richard Drew,  
President and CEO

**We Believe You Are Important**  
— How Can We Help?



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## GE Healthcare Whatman™ 934-AH™ RTU Glass Microfiber Filters

**Save time - Ready to use filters for analysis of Total Suspended Solids**

- Pre-washed and pre-weighed filters in bar-coded pans
- High temperature tolerant –up to 550 C
- Superior fine particle retention at high flow rates
- High loading capacity-process very turbid samples



Thomas No.	Mfr. No.	Description	Pack
1227Z33	9907-042	Microfiber Filter, 934-AH RTU, 42.5mm	100
1227Z34	9907-047	Microfiber Filter, 934-AH RTU, 47mm	100
1227Z35	9907-055	Microfiber Filter, 934-AH RTU, 55mm	100
1205W37	9907-090	Microfiber Filter, 934-AH RTU, 90mm	100

## GE Healthcare Whatman™ 934-AH™ Borosilicate Glass Microfiber Filters

- Superior fine particle retention at high flow rates
- High loading capacity-process samples with high solids



Thomas No.	Mfr. No.	Description	Box
4750D37	1827-047	Filter Disc, Grade 934AH, 47mm	100
4750D55	1827-090	Filter Disc, Grade 934AH, 90mm	100

## GE Healthcare Glass Microfiber Binder Free

Combines fine particle retention with good flow rate. The standard filter in many parts of the world for the collection of suspended solids in potable water and natural and industrial wastes. Fast and efficient clarification of aqueous liquids containing low to medium levels of fine particulates. Widely used for cell harvesting, liquid scintillation counting and binding assays where more loading capacity is required.



Thomas No.	Mfr. No.	Description	Pack
0898Q73	1822-042	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 42.5mm	100
4751K35	1822-047	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 47mm	100
0898Q71	1822-055	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 55mm	100
0898Q70	1822-070	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 70mm	100
0898Q69	1822-090	Grade GF/C Glass Microfiber Filter, Binder Free, Circles, 90mm	100

## Ahlstrom Glass Microfiber Filter Grade 169

**Grade 169: 1.0 µm**

- Thermally stable to over 550°C
- Total suspended solids determination
- Volatile solids testing
- EPA and ASTM protocols
- Total dissolved solids



**Environmental Laboratory Applications:**

**STM 2540 Total, Dissolved, Suspended, Fixed and Volatile Solids**

**STM 2710.B,D,E Tests on Sludges:**

**Oxygen-Consumption Rate, Sludge Volume Index, Zone Settling Rate**

Thomas No.	Mfr. No.	Description	Pack
1203M06	1690-0210	Grade 169, Circle, 2.10cm	100
1201V36	1690-0240	Grade 169, Circle, 2.40cm	100
1201V37	1690-0425	Grade 169, Circle, 4.25cm	100
1201V38	1690-0470	Grade 169, Circle, 4.70cm	100
1201V39	1690-0550	Grade 169, Circle, 5.50cm	100
1201V40	1690-0700	Grade 169, Circle, 7.00cm	100
1203R19	1690-0900	Grade 169, Circle, 9.00cm	100
1201V41	1690-1100	Grade 169, Circle, 11.00cm	100
1201V42	1690-1250	Grade 169, Circle, 12.50cm	100

## GE Healthcare Type CF pH Indicator Color Bonded Strips

GE Healthcare offers a range of pH indicator and test papers for the rapid determination of pH values in many applications in laboratories and industry. Whatman™ pH papers combine ease-of-use with unsurpassed accuracy and consistency.



Thomas No.	Mfr. No.	Description	Reel	Pack
1219G59	2613-991	pH 0 - 14, 6 x 80mm	—	100
1231J83	2614-991	pH 4.5 - 10, 6 x 80mm	—	100
1212F80	2629-990	pH 6 - 8.1, 11 x 100mm	—	200
1212F78	2627-990	pH 3.8 - 5.5, 11 x 100mm	—	200
1212F72	2611-628	pH 1 - 11, 10mm x 5m	1	—
0898Y86	2600-100A	Standard Full Range, pH 1 - 14, 7mm x 5m	1	—

## Gosselin Petri Dishes

- The stacking ring is specially designed to improve the stacking of plates
- Class 100 manufacturing environment: Ensures plates have asepsis
- Retains shape up to 55°C
- All plates are ISO 5 (Class 100) aseptic or sterilized



Thomas No.	Mfr. No.	Description	Case
1210K12	SB93-03	Polystyrene, 100 x 15 mm, 3 Vents, Sterile	825



**SPE Disks and Filters** can be found in the Chemical Section starting on page 48

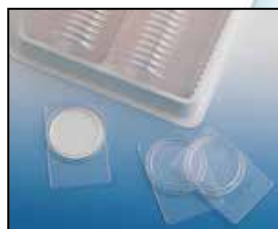
# Water/Wastewater Analysis

(continued)



## EMD Millipore PetriSlides™ Dish for Microbiological Analysis

Substitute for Petri Dishes. Holds filter securely in place. Transparent cover allows microscopic examination without removal. Rectangular base has rounded corners for mounting on microscope stage. Sterilized storage and examination containers for culturing microorganisms on 47 mm membranes, absorbent pad included.



Thomas No.	Mfr. No.	Description	Pack
1217M55	PDMA04700	PetriSlides Dish, Preloaded with Absorbent Pads	100
1217M56	PD1504700	PetriSlides for Contamination Analysis	100

## Simport Petri Dish 50 x 9 mm Rimmed

Made of polystyrene these 50 x 9 mm sterile petri dishes with absorbent pads are ideal for culturing microorganisms on either agar or broth based media. Designed to accommodate 47 mm diameter membrane filters. These dishes are stackable and have squared off edges on both the top and bottom which provide convenient grips for one handed opening. The snug fitting top ensures that neither the absorbent pad nor the agar media will dry out during incubation. A frosted area on top of lid permits labeling.



Thomas No.	Mfr. No.	Description	Case
1219D00	D210-18A	Absorbent Pad Petri Dishes, 50 x 9 mm, w/out Pad	500
1219D01	D210-18B	Absorbent Pad Petri Dishes, 50 x 9 mm, w/ Pad	500

## Thomas® Petritite Dishes

Used with a 47-mm diameter filter, with or without pad

- Less than 1% moisture loss at 35°C (95°F) over a 24-hour period
- Unique leg design leaves space between dishes for even temperature distribution during incubation
- Optically clear polystyrene, gamma radiation sterilized



Thomas No.	Description	Box	Case
3489B60	Petri Dish, 50 x 9 mm, without Pad	100	1000
3489B66	Petri Dish, 50 x 9 mm, with Pad	100	1000

## EMD Millipore S-Pak Filters

S-Pak sterile, individually packed, gridded membrane filters are made from mixed esters of cellulose and have been optimized for MF method microbiological analysis of water or other liquids.



Thomas No.	Mfr. No.	Description	Pack
1217M92	HAWG04756	0.45um White Gridded S-Pak 47mm	600

## GVS Life Sciences Micron-Sep Membrane Filters

Available pre-sterilized or autoclavable with gridded surface. Autoclavable filters come in envelopes of 10 filters and 10 absorbent cellulosic pads. The envelopes are designed to withstand normal autoclaving environments and feature an indicator that changes color after successful autoclaving at 121°C. Pore size of 0.45 µm. Sterile packs are packaged the same way but have been pre-sterilized by gamma irradiation.



Thomas No.	Mfr. No.	Description	Box
4641K33	1215230	Membrane, without Pad	200
4641K35	1214923	Membrane, without Pad	1000
4641K37	1215281	Membrane, MCE, w/o Grid, 0.45 µm, 47 mm	100
4641K39	1215207	Membrane, MCE, w/Grid, 0.45 µm, 47 mm	100

## Applied Separations ValuSep® Aluminum Pans

These pans are made of smooth wall construction to help prevent the analytes from creeping or wicking out of the pan during the evaporation process. The larger diameter of the 105mm pans enables fast drying of extracts up to 125 mL while almost twice as many extracts up to 55 mL can be dried per unit unit area due to this pans smaller diameter.



Thomas No.	Mfr. No.	Description	Pack
1217N27	24505	Pans, Aluminum, 70mm (55 mL)	100
1217N28	24506	Pans, Aluminum, 105mm (125 mL)	100

## Thermo Scientific™ Nalgene™ Clear Polycarbonate Imhoff Cone and Rack

### Resists breakage

- For determining levels of settleable matter in water and waste effluent
- Also used to measure sand content in well water

Leakproof polypropylene screw closure makes it possible to withdraw sediment for gravimetric analysis and also aids in cleaning. Graduated, for measurement of sediment, from 0 to 1 mL in 0.1 mL; 1 to 10 mL in 0.5 mL; 10 to 40 mL in 1 mL; 40 to 100 mL in 10 mL; 100 to 500 mL in 50 mL; and 500 mL to 1 liter in 100 mL divisions. Overall height 45 mm; o.d. at top 106 mm; i.d. at tip 6 mm.



Thomas No.	Mfr. No.	Description	Each	Case
3260F10	1000-0010	Imhoff Cone, Polycarbonate	1	4
3260J10	1001-0010	Imhoff Cone Rack	1	4



For more **Filter** options, please visit  
**thomassci.com** Keyword: filters





## Thermo Scientific™ Nalgene™ Polypropylene Copolymer Beakers

### Unbreakable in ordinary use

- Autoclavable
- Superior chemical resistance
- Break resistant with ribs for easy stacking, maximum temperature use 135°C



Contact-clear wall allows easy observation of liquid level within the beaker. 30 and 50 mL beakers are graduated in 5 mL intervals; 100 and 150 mL beakers are graduated in 10 mL intervals; 250 and 400 mL beakers are graduated in 25 mL intervals; 600 and 1000 mL beakers are graduated in 50 mL intervals; 2,000 mL beakers are graduated in 200 mL intervals; and 4,000 mL beakers are graduated in 250 mL intervals. Not for use on hotplates. Meets the ISO/DIN 7056 International Standards for Laboratory Plasticware Accuracy.

Thomas No.	Mfr. No.	Description	Pack	Case
1542E06	1201-0030	Beaker, 30 mL	12	48
1542E16	1201-0050	Beaker, 50 mL	12	48
1542E26	1201-0100	Beaker, 100 mL	12	48
1542E36	1201-0150	Beaker, 150 mL	12	48
1542E46	1201-0250	Beaker, 250 mL	6	36
1542E56	1201-0400	Beaker, 400 mL	6	36
1542E66	1201-0600	Beaker, 600 mL	4	24
1542E76	1201-1000	Beaker, 1,000 mL	3	12
1542E85	1201-2000	Beaker, 2,000 mL	1	6
1542E95	1201-4000	Beaker, 4,000 mL	1	4

## Corning PYREX® Brand Class A Volumetric Flasks

- With barrel-shaped Standard Taper glass stopper
- Calibrated to contain at 20°C

The strength of these flasks has been increased appreciably through machine-blown bodies to which are sealed heavy-tubing necks tooled for glass stoppers. The graduation line is sharp and permanent and large white block letters make the inscription easy to read.



Thomas No.	Mfr. No.	Description	Each	Pack	Case
4997B13	5640-1	Flask, Volumetric, 1 mL	—	—	12
4997B19	5640-2	Flask, Volumetric, 2 mL	—	—	12
4997B24	5640-5	Flask, Volumetric, 5 mL	—	—	12
4997B30	5640-10	Flask, Volumetric, 10 mL	—	—	12
4997B35	5640-25	Flask, Volumetric, 25 mL	—	6	12
4997B41	5640-50	Flask, Volumetric, 50 mL	—	6	12
4997B47	5640-100	Flask, Volumetric, 100 mL	—	6	12
4997B51	5640-200	Flask, Volumetric, 200 mL	—	6	12
4997B57	5640-250	Flask, Volumetric, 250 mL	—	6	12
4997B63	5640-500	Flask, Volumetric, 500 mL	—	6	12
4997B70	5640-1L	Flask, Volumetric, 1,000 mL	—	6	12
4997B76	5640-2L	Flask, Volumetric, 2,000 mL	1	—	4

## Corning PYREX® Class A Graduated Cylinders

PYREX® Class A single metric scale graduated glass cylinders are calibrated "to deliver" in accordance with ASTM E-1272 and ASTM E-542. Each cylinder is individually serialized and supplied with a Certificate of Identification and capacity, traceable to NIST standards. Permanent white graduations are easy to read. Bumper guards are supplied with 25 mL through 2000 mL inclusive. The 10 mL size has a funnel top.



Thomas No.	Mfr. No.	Description	Case
3566D13	3062-10	Pyrex Certified / Serialized Cylinder, 10 mL x 0.1 mL	1
3566D18	3062-25	Pyrex Certified / Serialized Cylinder, 25 mL x 0.2 mL	1
3566D23	3062-50	Pyrex Certified / Serialized Cylinder, 50 mL x 1 mL	1
3566D28	3062-100	Pyrex Certified / Serialized Cylinder, 100 mL x 2 mL	1
3566D33	3062-250	Pyrex Certified / Serialized Cylinder, 250 mL x 5 mL	1
3566D43	3062-1L	Pyrex Certified / Serialized Cylinder, 1000 mL x 10 mL	1
3566D93	3062-2L	Pyrex Certified / Serialized Cylinder, 2000 mL x 20 mL	1

## Corning PYREX® Brand Accu-Red Burets With Class A, Teflon Stopcock

The capacity tolerance on these burets is established by ASTM E 287 and they are calibrated in accordance with ASTM E 542. Tips are carefully drawn from accurate bore tubing to ensure proper drainage rates. This buret has colored markings, fine, sharp lines and large easy-to-read numbers. The stopcock barrel has a smooth micro-finish.



Thomas No.	Mfr. No.	Description	Case
1980F10	2103-10	Buret 10 mL	1
1980F20	2103-25	Buret 25 mL	1
1980F30	2103-50	Buret 50 mL	1
1980F40	2103-100	Buret 100 mL	1

## Thermo Scientific™ Nalgene™ Economy Polypropylene Copolymer Graduated Cylinders

- Large, easy-to-read raised graduations
- Large rounded bases are ribbed for reinforcement and stability
- All sizes have generous pour spout; 10 mL size has a conical top for easier filling and pouring; non-wetting
- Calibrated to contain and deliver at 20°C
- Autoclavable, but repeated autoclaving will affect accuracy
- Excellent chemical resistance and contact-clarity



Thomas No.	Mfr. No.	Description	Each	Case
3571A10	3664-0010	Cylinder, Polypropylene, Graduated, Economy, 10 mL	1	24
3571A15	3664-0025	Cylinder, Polypropylene, Graduated, Economy, 25 mL	1	18
3571A20	3664-0050	Cylinder, Polypropylene, Graduated, Economy, 50 mL	1	18
3571A25	3664-0100	Cylinder, Polypropylene, Graduated, Economy, 100 mL	1	12
3571A30	3664-0250	Cylinder, Polypropylene, Graduated, Economy, 250 mL	1	12
3571A35	3664-0500	Cylinder, Polypropylene, Graduated, Economy, 500 mL	1	8
3571A40	3664-1000	Cylinder, Polypropylene, Graduated, Economy, 1000 mL	1	6

# Water/Wastewater Analysis (continued)



## CELLTREAT® Scientific Products Best Value Pipets

- New efficient manufacturing line means additional savings passed on to customers
- Bi-directional (positive and negative) graduations are printed in bold easy-to-read black ink
- Color coded stripes and packaging enable quick volume identification
- All pipets contain premium material barrier plug
- Pipets fit standard pipet controllers
- All pipets include printed indicator arrows for quickly locating negative graduations when using a pipet controller
- All pipets feature an anti-drip tip
- All serological pipets are manufactured to the ASTM Standard Specification for Serological Pipets E-934
- All serological pipets are packaged sterile (gamma irradiated) individually wrapped in paper/plastic wrappers



Thomas No.	Mfr. No.	Description	Case
1191Z90	229001B	1mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	500
1191Z91	229002B	2mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	500
1191Z92	229005B	5mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	200
1191Z93	229010B	10mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	200
1191Z94	229025B	25mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	200
1191Z95	229030B	50mL Pipet, Individually Wrapped, Paper/Plastic, Bag, Sterile	100

## CELLTREAT® Scientific Products Syringe Filters

- Available in a variety of membrane types, porosities and diameters
- Syringe filters have luer-lock connections with polypropylene housings
- Filters are molded in the housings, providing a reliable seal without the use of adhesives
- Individually packed in peel-to-open paper/plastic blister packs
- Supplied sterile (gamma irradiated)



Thomas No.	Mfr. No.	Description	Case
1222B32	229743	Syringe Filter, PVDF, 0.22µm, 30mm Diameter, Sterile	30
1222B34	229745	Syringe Filter, PVDF, 0.45µm, 30mm Diameter, Sterile	30
1222B36	229747	Syringe Filter, PES, 0.22µm, 30mm Diameter, Sterile	30
1222B38	229749	Syringe Filter, PES, 0.45µm, 30mm Diameter, Sterile	30
1222B40	229751	Syringe Filter, MCE, 0.22µm, 30mm Diameter, Sterile	30
1222B42	229753	Syringe Filter, MCE, 0.45µm, 30mm Diameter, Sterile	30
1222B44	229755	Syringe Filter, Nylon, 0.45µm, 30mm Diameter, Sterile	30
1222B46	229757	Syringe Filter, PTFE, 0.22µm, 30mm Diameter, Sterile	30
1222B48	229759	Syringe Filter, PTFE, 0.45µm, 30mm Diameter, Sterile	30
1207N40	229761	Syringe Filter, Nylon, 0.22µm, 30mm Diameter, Sterile	30



For more *Celltreat* products, please visit  
**thomassci.com** Keyword: Celltreat

## Corning PYREX® Squibb Separatory Funnels with Plastic Stopper

- PTFE stopcock plug and Standard Taper polyethylene stopper
- Stem length of 65 mm
- PYREX® borosilicate glass body



Thomas No.	Mfr. No.	Description	Each	Case
5246L10	6404-60	Funnel Separatory 60 mL	1	4
5246L16	6404-125	Funnel Separatory 125 mL	1	4
5246L25	6404-250	Funnel Separatory 250 mL	1	4
5246L28	6404-500	Funnel Separatory 500 mL	1	4
5246L34	6404-1L	Funnel Separatory 1000 mL	—	1
5246L40	6404-2L	Funnel Separatory 2000 mL	1	—

## Corning PYREX® Buchner Filter Funnels with Fritted Glass Disc Design

- For use without filter paper
- Offered in nine sizes and three porosities
- Pore sizes 40 to 60 µm = C, 10 to 15 µm = M and 4 to 6 µm = F
- With square-cut, fire-polished rim



Thomas No.	Mfr. No.	Description	Each	Case
5220F46	36060-15C	Funnel Filter Type 15 mL, C	1	6
5220F64	36060-30C	Funnel Filter Type 30 mL, C	1	6
5220F88	36060-60M	Funnel Filter Type 60 mL, M	1	6
5220G28	36060-350C	Funnel Filter Type 350 mL, C	1	3

## WHATMAN™ IS CHANGING TOMORROW TODAY.

Renowned for quality that spans generations, Whatman filtration products are relied on by scientists every day in practically every lab in the world. Today Whatman products are used in more and more applications in every part of science, from filtration to air, water, soil and waste analysis. Explore GE Healthcare's Whatman product areas available through Thomas Scientific!

- Filter papers and membrane filters
- Syringe and syringeless filters
- Capsule filters
- Filtration microplates and accessories
- In-line filters
- Microbiology filtration



**Whatman**  
Part of GE Healthcare





## Thermo Scientific™ Nalgene™ Separatory Funnels

Funnel can be autoclaved; stopcock can be chemically sterilized. No stopcock lubrication needed.

- So transparent that phase interface is visible down to the stopcock and nonwetting surface—enhances complete drainage
- Break-resistant and impervious to any chemical used in a separatory funnel
- No phthalates to contaminate analyses
- Useful in radiological and hazardous separations
- Autoclavable/Leakproof

Ordering Alerts: Stem lengths, 65mm. Autoclavable except stopcock assembly, which is easily removed for chemical sterilization

Thomas No.	Mfr. No.	Description	Each	Case
0656J12	4301-0125	Separatory Funnel FEP 125 mL	—	4
0656J10	4301-0250	Separatory Funnel FEP 250 mL	—	4
0656J07	4301-0500	Separatory Funnel FEP 500 mL	—	4
0656J05	4301-1000	Separatory Funnel FEP 1,000 mL	—	4
5248A10	4301-2000	Separatory Funnel, FEP 2,000 mL	1	2



## Thermo Scientific™ Nalgene™ Polypropylene Buchner Funnels

- Lightweight and durable
- Bottom and top can be separated for easier cleaning
- Autoclavable

Thomas No.	Mfr. No.	Description	Each	Case
5214Q23	4280-0550	Funnel Buchner PP 55 mm	1	8
5214Q29	4280-0700	Funnel Buchner PP 70 mm	1	6
5214Q35	4280-0900	Funnel Buchner PP 90 mm	1	4
5214Q41	4280-1100	Funnel Buchner PP 110 mm	1	4
5214Q47	4280-1500	Funnel Buchner PP 150 mm	1	4



## Dynalon Polyethylene Dipper

- High density polyethylene dipper for removing samples from large tanks
- Lightweight but durable
- Available in three popular sizes: 3, 6 and 12 foot (both 12 foot sizes supplied with 2-piece handle for economy in shipping and storage)
- Supplied with a 500 mL or a 1,000 mL beaker, graduated



Thomas No.	Mfr. No.	Description	Each
8254R40	107075	Dipper, 3-Foot Handle, with 500 mL Beaker	1
8254R45	107085	Dipper, 6-Foot Handle with 500 mL Beaker	1
8254R50	107095	Dipper, 12-Foot Handle with 500 mL Beaker	1
8254R55	106505	Dipper, 3-Foot Handle with 1000 mL Beaker	1
8254R60	106515	Dipper, 6-Foot Handle with 1000 mL Beaker	1
8254R65	106525	Dipper, 12-Foot Handle with 1000 mL Beaker	1

## Dynalon Polyethylene Ladle

- High density polyethylene bowl with securely welded solid handle
- Handy for sampling and dispensing corrosive liquids
- Available in a variety of sizes



Thomas No.	Mfr. No.	Description	Each	Case
8254R70	108085-50	Ladle, 9" Handle, 50 mL	1	12
8254R75	108085-100	Ladle, 9" Handle, 100 mL	1	12
8254R80	108085-250	Ladle, 9" Handle, 250 mL	1	12
8254R90	108085-600	Ladle, 10" Handle, 600 mL	1	12
8254R95	108085-1000	Ladle, 12" Handle 1,000 mL	1	6

## Dynalon Dippas® Single Use Polystyrene Samplers

Enable samples of liquid or powder to be taken and sent for testing in the same container, eliminating risk of cross contamination.

- Sterile
- Available in blue and clear

The handle can be neatly snapped off once the sample has been taken. All Dippas come individually wrapped and are guaranteed sterile by gamma irradiation. Blue Dippas are highly visible in product samples.



Thomas No.	Mfr. No.	Description	Case
1229S07	507054-0030	Dippas Clear PS, PP Screw Closure, 30 mL	50
1229S08	507054-B030	Dippas Blue PS, PP Screw Closure, 30 mL	50
1229S09	507054-0100	Dippas Clear PS, Metal Screw Closure, 100 mL	100
1229S10	507054-B100	Dippas Blue PS, Metal Screw Closure, 100 mL	100
1229S11	507054-0250	Dippas Clear PS, Metal Screw Closure, 250 mL	50
1229S12	507054-B250	Dippas Blue PS, Metal Screw Closure, 250 mL	50

## Voss Bailers

### SingleSample® Disposable Polyethylene Bailers

- Eliminates field clean-up and cross-contamination
- Rugged, high-density polyethylene
- Each unit individually decontaminated with Liquinox™ washing and DI water rinse
- Ready-to-use
- Capacity approximately 1 L
- Friction-fit nozzle for easy, no-splash sample removal

For use in all ground wells with two inches i.d. or larger. Overall length 36"; 1.5" i.d x 1.562" o.d. Packaged in individually sealed bags to maintain cleanliness during transport.



Thomas No.	Mfr. No.	Description	Each	Case
8254G80	91946-S	Bailer, Polyethylene	1	24
8254G84	91946-SW	Bailer, Polyethylene, Weighted	1	24



Looking for a *Sample Container*?  
See pages 43-44



## Nasco Whirl-Pak® Water Sample Bags

- Sterile polyethylene bags with sodium thiosulfate
- Disposable, transparent bags for water sampling
- With white marking strip and 4 oz. fill line



For dechlorinating water samples in accordance with APHA Standard Methods for the Examination of Water and Wastewater, 17th Ed. (1989), Method 1060 B. Sterilized by ethylene oxide. Should not be used at temperatures near or at the boiling point (212°F, 100°C). Approved by the FDA and USDA for food sampling. Carton of 100, contains 4 packages of 25 bags.

Thomas No.	Mfr. No.	Description	Container	Bag
1303R90	B01040WA	Bag, Thio-Bag® Water Sampling, 100 mL	100	—
1303R92	B01254WA	Bag, Thio-Bag® Water Sampling, 300 mL	—	100

## Nasco Stand-Up Whirl-Pak® Thio-Bags®

The job of collecting water samples is easier with the Whirl-Pak® Stand-Up Thio-Bag®! A special gusset on the bottom of the bag flattens out when water is put in the bag, allowing it to stand up completely by itself. No rack or other holder is needed to keep the bag upright. Forget washing and sterilizing glass bottles and disposing of expensive vials. Sterile and unbreakable, these bags will save time and money whether working in the lab or in the field. Each bag contains 10 mg of active sodium thiosulfate to neutralize chlorine in the sample.



Thomas No.	Mfr. No.	Description	Box
1221T97	B01402WA	100 ml Stand-Up Thio-Bag®	100
1221T98	B01403WA	300 ml Stand-Up Thio-Bag®	100

## Nasco Whirl-Pak® Stand-Up Sample Bags

The Whirl-Pak® Stand-Up Bag makes sample handling and testing much easier because it gives users the ability to perform important laboratory functions with both hands, because the bag will stand completely by itself. No rack or other holder is needed to keep the bag upright. When the sample is placed inside, the special gusseted bottom flattens out, allowing the bag to stand up on its own. It works just like a beaker or bottle, however, it costs less, is sterilized, won't break, and uses only a fraction of storage space as the other containers.



Thomas No.	Mfr. No.	Description	Box
1303R01	B01364WA	4 oz, 120 ml Stand-Up bag	500
1303R05	B01365WA	18 oz, 532 ml Stand-Up bag	500
1221U01	B01401WA	24 oz, 710 ml Stand-Up bag	500
1221U02	B01448WA	27 oz, 798 ml Stand-Up bag	250
1221U03	B01449WA	36 oz, 1,065 ml Stand-Up bag	250
1221U04	B01450WA	42 oz, 1,242 ml Stand-Up bag	250
1221U05	B01451WA	69 oz, 2,041 ml Stand-Up bag	250

## Nasco Whirl-Pak® Coli-Test Bag

If water samples are being tested with color-changing reagents, this bag can be used in place of the expensive bottle currently used. The bag is made of a special barrier film suitable for use with enzyme-based methods that result in a chromogen and/or a fluorogen release when total coliform and E. coli are present. The special film prevents color change from permeating through the bag, contaminating another sample and creating a false positive, and making contact with a person's skin if they are not wearing gloves.



Thomas No.	Mfr. No.	Description	Pack
1221U06	B01417WA	100 ml Coli-Test Thio-Bag®	100

## Starplex Scientific Sodium Thiosulfate Tablet

Tablets are an ideal reducing agent for dehalogenating water samples prior to bacterial or organic testing.

- Leak resistant Polypropylene 120mL (4 oz.) container with O-ring cap
- Sterile with tab to ensure integrity
- Includes Sodium Thiosulfate tablet
- Lot number traceable on every container
- ID label
- Expiry dated



Thomas No.	Mfr. No.	Description	Case
1219J21	B1202-TS	120 mL (4 oz.), Sodium Thiosulfate Tablets	300

## Interlab PolySeed® BOD Seed Inoculum Capsules

- EPA accepted
- Non-pathogenic
- Free of nitrifying microorganisms
- To use, mix contents of one (1) capsule with 0.5 L of APHA standard dilution water at 20°C (68°F), stir for at least 60 minutes
- Mixture yields seed inoculum for up to 200 BOD5 tests
- Shelf life 2 years
- Also available as PolySeed NX, which contains an approved chemical additive for the inhibition of ammonia nitrogen (NH3-N) in wastewater samples for CBOD5 analysis



Thomas No.	Mfr. No.	Description	Box
9855D20	P-110	Polyseed® BOD Seed Inoculum Capsules	50

## Interlab PolySeed NX®

- Eliminates hassle and time required to add inhibition chemical
- Non-pathogenic
- Free of nitrifying microorganisms
- To use, mix contents of one (1) capsule with 0.5 L of APHA standard dilution water at 20°C (68°F), stir for at least 60 minutes
- Mixture yields seed inoculum for up to 200 CBOD5 tests
- Shelf life 2 years



Thomas No.	Mfr. No.	Description	Pack
9855D30	P-210	Polyseed® BNX, Vial	50



## CHEMetrics COD Analysis Kits

- US EPA-approved
- Mercury-free COD kits

CHEMetrics' leakproof reagent vials contain pre-measured solutions of sulfuric acids and potassium dichromate. CHEMetrics' COD vials can be directly used with CHEMetrics' single analyte COD photometers, as well as Hach's spectrophotometers.



Thomas No.	Mfr. No.	Description	Pack
1230Z01	K-7350S	COD Vials Kit, 0-150 ppm	25
1230Z02	K-7351S	COD Mercury Free Vials Kit, 0-150 ppm	25
1233R93	K-7355	COD Vials Kit, 0-150 ppm	150
1233R94	K-7356	COD Mercury Free Vials Kit, 0-150 ppm	150
1230Z03	K-7360S	COD Vials Kit, 0-1500 ppm	25
1230Z04	K-7361S	COD Mercury Free Vials Kit, 0-1500 ppm	25
1233R97	K-7365	COD Vials Kit, 0-1500 ppm	150
1233R98	K-7366	COD Mercury Free Vials Kit, 0-1500 ppm	150
1230Z05	K-7370S	COD Vials Kit, 0-15, 000 ppm	25
1230Z06	K-7371S	COD Mercury Free Vials Kit, 0-15, 000 ppm	25

## Hach DPD Free Chlorine and Total Chlorine Powder Pillows

- US EPA accepted for reporting drinking water analysis using Hach Method 8021
- US EPA accepted for reporting drinking and wastewater analysis using Hach Method 8167



Thomas No.	Mfr. No.	Description	Each
9866Q59	1407099	DPD Free Chlorine Powder Pillows 25 mL	100
3241D57	1407799	DPD Free Chlorine Powder Pillows 5 mL	100
3241D55	1407699	DPD Total Chlorine Powder Pillows 5 mL	100
9866N91	1406499	DPD Total Chlorine Powder Pillows 25 mL	100



For more **COD** and **DPD Chemicals**, see Chemical Section starting on page 48

## CoorsTek Porcelain Evaporating Dishes with Spout

- Maximum use temperature 1150°C
- Sizes up to and including 250 mL are glazed throughout with exception of rim



Thomas No.	Mfr. No.	Description	Each	Case
3820E25	60197	Evaporating Dish, 75 X 30mm, 70 mL	1	48
3820E35	60198	Evaporating Dish, 80 X 30mm, 80 mL	1	24
3820E55	60200	Evaporating Dish, 90 X 37mm, 120 mL	1	24
3820E65	60201	Evaporating Dish, 100 X 42mm, 150 mL	1	18
3820E75	60202	Evaporating Dish, 115 X 45mm, 250 mL	1	18

## CoorsTek Porcelain High Form Crucibles

- Glazed throughout with the exception of outside bottom surface
- Outside diameter is measured at the top of the crucible



Thomas No.	Mfr. No.	Description	Each	Case
3319B31	60104	Crucible, High Form, 10 ml, 30 X 26 mm	1	72
3319B38	60105	Crucible, High Form, 15 ml, 35 X 29 mm	1	72
3319B52	60107	Crucible, High Form, 30 ml, 43 X 37 mm	1	36
3319B59	60108	Crucible, High Form, 40 ml, 47 X 40 mm	1	36
3319B66	60109	Crucible, High Form, 50 ml, 51 X 43 mm	1	24
3319B73	60110	Crucible, High Form, 100 ml, 62 X 54 mm	1	24

## CoorsTek Porcelain Squat Form Crucibles

- Glazed throughout with the exception of outside bottom surface



Thomas No.	Mfr. No.	Description	Each	Case
3319K73	60139	Crucible, Wide Form 150 ml, 84 X 52 mm	1	18
3319K45	60135	Crucible, Wide Form 17 ml, 41 X 26 mm	1	48
3319K52	60136	Crucible, Wide Form 30 ml, 50 X 31 mm	1	36
3319K66	60138	Crucible, Wide Form 100 ml, 76 X 49 mm	1	24

## CoorsTek Porcelain Gooch Crucibles

- With perforated bottom
- Used for suspended solids determinations



Thomas No.	Mfr. No.	Description	Each	Case
3320C41	60148	Crucible, Gooch 25 ml, 36 X 41 mm	1	24
3320C62	60151	Crucible, Gooch 40 ml, 40 X 47 mm	1	18

## CoorsTek Porcelain Crucible Covers

- Glazed all over except for rim



Thomas No.	Mfr. No.	Description	Each	Case
3319D37	60123	Crucible Cover, 38 mm	1	72
3319D44	60124	Crucible Cover, 45 mm	1	72
3319D51	60125	Crucible Cover, 54 mm	1	72

## Dynalco Evaporating Dishes

### Tall form with pouring spout

- Pure PTFE, heavy wall, smooth internal finish
- Inert and usable to 280°C
- Other sizes available



Thomas No.	Mfr. No.	Description	Each
3833T81	355304-0100	Evaporating Dishes 100 mL	1
3833T84	355304-0150	Evaporating Dishes 150 mL	1
3833T87	355304-0180	Evaporating Dishes 180 mL	1



# Water/Wastewater Analysis

(continued)



## Wheaton

### 300 mL BOD Bottles with Pennyhead Stoppers and Stopperless

BOD bottles are suitable for incubating diluted samples of sewage, sewage effluents, polluted waters, and industrial wastes to determine the amount of oxygen required during the stabilization of the decomposable organic matter by aerobic biochemical action. These 300 mL capacity bottles are recommended for the five-day BOD test as referenced in Standard Methods for the Examination of Water and Wastewater, 18th Edition, 5210B, 1992.



Thomas No.	Mfr. No.	Description	Case
1781M01	227497-00G	BOD Bottle, 300 ml, Penny-Head Stopper, Unnumbered	24
1781M04	227497-01G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 1-24	24
1781M07	227497-02G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 25-48	24
1781M10	227497-03G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 49-72	24
1781M13	227497-04G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 73-96	24
1234R49	227497-05G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 97-120	24
1234R50	227497-06G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 121-144	24
1234R51	227497-07G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 145-168	24
1234R52	227497-08G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 169-192	24
1234R53	227497-09G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 193-216	24
1234R54	227497-10G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 217-240	24
1234R55	227497-11G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 241-264	24
1234R56	227497-12G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 265-288	24
1234R57	227497-13G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 289-312	24
1234R58	227497-14G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 313-336	24
1234R59	227497-15G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 337-360	24
1234R60	227497-16G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 361-384	24
1234R61	227497-17G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 385-408	24
1233M38	227497-18G	BOD Bottle, 300 ml, Penny-Head Stopper, No. 409-432	24
1233M44	227498	BOD Bottle, 300 ml, Stopperless	24

## Wheaton

### BOD Bottle Accessories

BOD Bottle Racks are constructed of coated wire. 1215X63 holds up to twenty 60 mL BOD Bottles and 1220C96 holds up to twelve 300 mL BOD Bottles.



Polyethylene cap with a closed cell foam insert (1781N85) snaps firmly over the flared mouth of Wheaton BOD bottles. This closure prevents the evaporation of the water seal during the five-day BOD incubation period. The foam insert fits into the cap and exerts pressure on the bottle stopper to hold it securely in place.

Replacement Stoppers are available in Pennyhead (1234R62) or Robotic (1234R63) styles.

Thomas No.	Mfr. No.	Description	Case
1234R63	227670	BOD Stopper, Glass Robotic, Replacement for 60 or 300 mL BOD Bottles	12
1234R62	227672	BOD Stopper, Glass Pennyhead, Replacement for 60 or 300 mL BOD Bottles	12
1781N85	227723	Cap with foam insert for BOD Bottles	50
1215X63	W227729	Rack, Holds Twenty 60 mL BOD Bottles	1
1220C96	W227731	Rack, Holds Twelve 300 mL BOD Bottles	1

## Environmental Express

### Disposable BOD Bottle

#### No more cleaning BOD bottles

Disposable BOD bottles provide huge labor savings and improved quality in any environmental laboratory. Lightweight, unbreakable, and recyclable disposable bottles offer safety as well as convenience. Bottles are formed from PET resin, the most easily recycled plastic available. Simply use once and toss into the recycling bin.



Thomas No.	Mfr. No.	Description	Pack	Case
1230Z17	D1001	Disposable BOD Bottle, 300 mL	—	117
1230Z99	D1050	Overcaps For BOD Bottles	50	—
1230Z98	D1025	Unbreakable Acrylic BOD Bottle Stoppers	25	—

## Thermo Scientific™ Nalgene™

### Wide-Mouth Natural HDPE Bottles

- HDPE container with leak-proof polypropylene closure
- Available in bulk packs for added economy
- Caps assembled onto containers
- Wide mouth for easy filling and emptying
- Certified to meet EPA Performance Based Specifications for trace metal and water quality parameter analysis



Thomas No.	Mfr. No.	Description	Case
1709C01	N311-0125	Bottle Wide Mouth Natl 125 mL	72
1709C02	N311-0250	Bottle Wide Mouth Natl 250 mL	72
1709C03	N311-0500	Bottle Wide Mouth Natl 500 mL	48
1709C04	N311-1000	Bottle Wide Mouth Natl 1000 mL	24

## VOA Vials and Caps

*A Rainbow of Possibilities...*

- Clear or Amber Type 1 Glass - 20mL, 40mL & 60mL
- Closures available in a rainbow of colors for easy sample identification
- Open top & solid top closures with 400 or 414 skirts
- Lined with PTFE or .060, .100 or .125 PTFE/Silicone septa

- Available in Class 1 - Standard, Class 2 - Pre-cleaned or Class 3 - Pre-cleaned & Certified
- Packaged 72 or 100 per case or 144 per tray
- Specialty caps also available, Phenolic PE Cone & PTFE/F-217



## Thermo Scientific™ HDPE Cylinder Round Bottles

- HDPE container with white LDPE-lined Polypropylene Cap
- Narrow cylinder round style bottle is easy to grip and handle
- Caps assembled onto containers
- Narrow mouth for precision pouring
- Recommended for collecting water samples and other low viscous liquids
- Available bulk packed for added economy



Thomas No.	Mfr. No.	Description	Case
<b>1206F63</b>	313-0125	Bottles Cylinder Round Certified 125 mL	48
<b>1709B10</b>	313-0250	Bottles Cylinder Round Certified 250 mL	24
<b>1709B11</b>	313-0500	Bottles Cylinder Round Certified 500 mL	24
<b>1709B12</b>	313-1000	Bottles Cylinder Round Certified 1000 mL	12



For Wide Mouth Jars,  
see page 44

## Thermo Scientific™ Boston Round Amber Glass Bottles

Boston Round Amber Glass Bottles feature caps for the 125 and 250 mL sizes that are ultrasonically bonded with a 0.125" PTFE-lined, silicone liner. Caps for the 500 and 1000 mL sizes are equipped with a friction-fit PTFE liner which can easily be replaced if necessary. Bottles have a polypropylene closure and are suitable for water sampling. Recommended for UV light sensitive samples.



Thomas No.	Mfr. No.	Description	Case
<b>1709A41</b>	149-0125	Bottle Boston Round Amber Narrow Mouth, 125 mL, Unprocessed	12
<b>1709A42</b>	149-0250	Bottle Boston Round Amber Narrow Mouth, 250 mL, Unprocessed	12
<b>1709A43</b>	149-0500	Bottle Boston Round Amber Narrow Mouth, 500 mL, Unprocessed	12
<b>1709A44</b>	149-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Unprocessed	12
<b>1709A72</b>	249-0125	Bottle Boston Round Amber Narrow Mouth, 125 mL, Processed	12
<b>1709A73</b>	249-0250	Bottle Boston Round Amber Narrow Mouth, 250 mL, Processed	12
<b>1709A74</b>	249-0500	Bottle Boston Round Amber Narrow Mouth, 500 mL, Processed	12
<b>1709A75</b>	249-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Processed	12
<b>1709B47</b>	349-0125	Bottle Boston Round Amber Narrow Mouth, 125 mL, Certified	12
<b>1709B48</b>	349-0250	Bottle Boston Round Amber Narrow Mouth, 250 mL, Certified	12
<b>1709B49</b>	349-0500	Bottle Boston Round Amber Narrow Mouth, 500 mL, Certified	12
<b>1709B50</b>	349-1000	Bottle Boston Round Amber Narrow Mouth, 1 L, Certified	12

## Thermo Scientific™ HDPE Wide Mouth Packers

- HDPE container with white LDPE-lined Polypropylene Cap
- Caps assembled onto containers
- Wide mouth easy filling and sample retrieval
- Recommended for collecting liquid, semi-liquid and viscous samples
- Available bulk packed for added economy, see [thomassci.com](http://thomassci.com)



Thomas No.	Mfr. No.	Description	Case
<b>1206F61</b>	112-0120	120 mL HDPE Packer Unprocessed	48
<b>1206F54</b>	112-0250	250 mL HDPE Packer Unprocessed	24
<b>1206F55</b>	112-0500	500 mL HDPE Packer Unprocessed	24
<b>1206F62</b>	312-0120	120 mL HDPE Packer Certified	48
<b>1709B07</b>	312-0250	250 mL HDPE Packer Certified	24
<b>1709B08</b>	312-0500	500 mL HDPE Packer Certified	24

## J.G. Finneran VOA Vials - Open Top Closures and Septum

Available in clear or amber borosilicate glass. Choice of .125" or .100" PTFE/Silicone Septa. Available in standard, precleaned or precleaned/certified in accordance with recommended E.P.A. Protocol.

**Class 1:** (Standard) Containers are assembled with liner and closure without washing treatment.

**Class 2:** (Precleaned) Containers are processed according to EPA recommended wash procedures. Washed with laboratory grade biodegradable, non-phosphate detergent, rinsed with ASTM Type I De-ionized water, over dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

**Class 3:** (Precleaned and Certified) Containers are processed according to EPA recommended wash procedures.



Thomas No.	Mfr. No.	Description	Pack
<b>1204Y83</b>	9-102	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Standard	72
<b>1204Y84</b>	9A-102	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Standard	72
<b>1204Y97</b>	9-102-2	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Precleaned	72
<b>1204Y98</b>	9A-102-2	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Precleaned	72
<b>1204Z09</b>	9-102-3	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Precleaned and Certified	72
<b>1204Z10</b>	9A-102-3	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-414mm Open Top Closure, 0.125" PTFE/Silicone Septa, Precleaned and Certified	72

More sizes available at [www.thomassci.com](http://www.thomassci.com)

# Water/Wastewater Analysis

(continued)



**J.G. Finneran**

## VOA Vials - Solid Top Closures, PTFE Lined

Available in clear or amber borosilicate glass. Assembled with the solid top PTFE-Lined closures. Available in standard, precleaned or precleaned/certified in accordance with recommended E.P.A. Protocol.

**Class 1:** (Standard) Containers are assembled with liner and closure without washing treatment.

**Class 2:** (Precleaned) Containers are processed according to EPA recommended wash procedures. Washed with laboratory grade biodegradable, non-phosphate detergent, rinsed with ASTM Type I De-ionized water, over dried and assembled in a contaminate-free environment. The exterior of each case is labeled with a lot number. Each case contains a copy of wash "Standard Operating Procedure".

**Class 3:** (Precleaned and Certified) Containers are processed according to EPA recommended wash procedures.



Thomas No.	Mfr. No.	Description	Pack
<b>1204Z34</b>	9-120	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Standard	72
<b>1204Z35</b>	9A-120	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Standard	72
<b>1204Z46</b>	9-120-2	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned	72
<b>1204Z47</b>	9A-120-2	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned	72
<b>1204Z56</b>	9-120-3	40mL VOA Vial, Clear, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned and Certified	72
<b>1204Z57</b>	9A-120-3	40mL VOA Vial, Amber, Assembled with White Polypropylene 24-400mm Solid Top Closure, PTFE Lined, Precleaned and Certified	72

## Globe Scientific Specimen Containers

- Capacity 120 mL (4 oz.)
- Tri-lingual patient ID label (1224L6/L66 only)
- Container: Polypropylene (PP)
- Cap: Polyethylene (PE)
- Graduated to 100mL
- Screw caps attached (1224L65/L66 only)
- Screw caps separate (1224L67)



Thomas No.	Mfr. No.	Description	Case
<b>1224L65</b>	5912	4 oz Specimen Container, Red Screwcap, Sterile, individually wrapped	100
<b>1224L66</b>	5913	4 oz Specimen Container, Green Screwcap, Sterile, individually wrapped	100
<b>1224L67</b>	5915	4 oz Specimen Container, Red Screwcap, Non-Sterile, bulk	500

## Thermo Scientific Capitol Vial 2 oz. Flip Top Polypropylene Vials with Chain of Custody Closures

- Ideal for transport and storage of sensitive materials and samples
- 100% FDA compliant food grade polypropylene
- Aseptic, airtight and leak resistant construction with permanent hinge lid
- To open after use, simply cut the chain lock with scissors
- Shoulderless, liner-less containers



Thomas No.	Mfr. No.	Description	Case
<b>1184G22</b>	02CC	Flip Top Vial, Polypropylene, 2 oz, Chain of Custody Seal, Clear	600

## Thomas® Coliform Water Sampling Vials

**Improved sample container for microbiological testing**

- Sterile
- Ideal when filtration or the Colilert® method is used
- Rigid vial is easier to fill than a bag- no spills
- Latching mechanism improved over competitive vials
- Will not open or leak in transit- positive thumb lock latches with an audible click
- Vials are sterile by process; locking arrow indicates an unbroken factory seal
- Superior clarity polypropylene allows use with colorimetric 73 methods



Thomas No.	Description	Case
<b>9853Q60</b>	Vial, with Tablet	250
<b>9853Q57</b>	Vial, Sterile	250
<b>1199Z27</b>	Vial, with Tablet and Tie	200

## Benchmark Autoclave 16L Research 120V Bioclave

Steam sterilization of research tools and consumables is convenient and affordable with the BioClave™ digital research autoclaves. With a width of under 18 in. (under 14 in. for the BioClave Mini), both models will fit comfortably on even the most crowded bench top.



Thomas No.	Mfr. No.	Description	Each
<b>1227W10</b>	B4000-16	Autoclave 16L Research 120V Bioclave	1
<b>1227W09</b>	B4000-M	Autoclave Mini Research 120V Bioclave	1

## Mettler Toledo Excellence XSE Analytical Balances

XSE Analytical Balances offer exceptional weighing performance and quality assurance features as well as excellent ergonomics. They are the perfect workhorse solution for a multitude of workplaces.

The innovative StatusLight takes the worry out of weighing. The clearly visible green light lets you know when it's safe to start – all tests are up-to-date and the balance is level and functioning correctly.

With a wide range of accessories available and multiple connectivity options, XSE balances open up a world of opportunities for different weighing applications.



Thomas No.	Mfr. No.	Description	Each
<b>1201R86</b>	30087716	XSE105DU Analytical Balance	1
<b>1201R87</b>	30087732	XSE205DU Analytical Balance	1
<b>1201R88</b>	30087708	XSE104 Analytical Balance	1
<b>1201R89</b>	30087724	XSE204 Analytical Balance	1





## Adam Equipment Nimbus Analytical and Precision Balances

- Weighing, parts counting, percentage weighing, dynamic/animal weighing, density determination
- Removable draft shield on models with 0.001g readability helps to reduce errors caused by air currents
- Robust metal housing
- Sealed keypad protects against dirt and accidental spills
- USB and RS-232 interfaces both included
- External calibration allows for verification and adjustment with weights
- Date and time for data tracing within Good Laboratory Practices
- Selectable digital filtering helps minimize effects of vibration and disturbances



Thomas No.	Mfr. No.	Description	Each
1191R09	NBL 84e	Nimbus Analytical Balance, 80g x 0.1mg, 3.5" pan, 115V	1
1191R10	NBL 124e	Nimbus Analytical Balance, 120g x 0.1mg, 3.5" pan, 115V	1
1191R11	NBL 164e	Nimbus Analytical Balance, 160g x 0.1mg, 3.5" pan, 115V	1
1191R12	NBL 214e	Nimbus Analytical Balance, 210g x 0.1mg, 3.5" pan, 115V	1
1191R13	NBL 254e	Nimbus Analytical Balance, 250g x 0.1mg, 3.5" pan, 115V	1
1187R52	NBL 124i - 115V	Nimbus Analytical Balance, 120g x 0.1mg, 3.5" pan, 115V	1
1191R14	NBL 223e-115V	Nimbus Precision Balance, 220g x 1mg, 4.7" pan, 115V	1
1191R15	NBL 423e -115V	Nimbus Precision Balance, 420g x 1mg, 4.7" pan, 115V	1
1191R19	NBL 2602e-115V	Nimbus Precision Balance, 2600g x 0.01g, 6.3" pan, 115V	1
1191R20	NBL 3602e-115V	Nimbus Precision Balance, 3600g x 0.01g, 6.3" pan, 115V	1
1191R22	NBL 4201e-115V	Nimbus Precision Balance, 4200g x 0.1g, 6.3" pan, 115V	1
1191R23	NBL 6201e-115V	Nimbus Precision Balance, 6200g x 0.1g, 6.3" pan, 115V	1
1191R24	NBL 8201e-115V	Nimbus Precision Balance, 8200g x 0.1g, 6.3" pan, 115V	1
1191R25	NBL 12001e-115V	Nimbus Precision Balance, 12000g x 0.1g, 6.3" pan, 115V	1
1191R27	NBL 22001e-115V	Nimbus Precision Balance, 22000g x 0.1g, 6.3" pan, 115V	1

## Polyscience Digital General Purpose Water Baths

- Calibration offset feature
- Large, backlit LCD display shows set and actual temperature
- Three user-configured temperature presets
- Integrated countdown timer
- Set the timer anywhere from minutes to 99 hours
- Clear, hinged gable cover tilts out of the way, lets condensation drain back into the bath and keeps samples in view



Thomas No.	Mfr. No.	Description	Each
1198Q17	WB02A11B	Digital Water Bath, 2L, 120V/60Hz	1
1198Q18	WB02A12E	Digital Water Bath, 2L, 240V/50Hz	1
1198Q19	WB05A11B	Digital Water Bath, 5L, 120V/60Hz	1
1198Q20	WB05A12E	Digital Water Bath, 5L, 240V/50Hz	1

## Boekel Open Source Bio™ (OSB™) Transmitter User Programmable Benchtop Meters

The Boekel Scientific line of Open Source, User Programmable pH, Conductivity, Dissolved Oxygen and Temperature measurement devices work just like conventional probes and transmitters but allow for additional functionality because the equipment is built around an Arduino compatible board. The UNO is an open source circuit board that allows easy user programming and experiment control. An External I/O connector allows the transmitter to connect to pumps or alarms while the USB drive included on the transmitter allows for downloadable data logging. A large color screen and user friendly probe calibrations make this unit easy to use.



Thomas No.	Mfr. No.	Description	Each
1188Z70	555003	User Programmable Benchtop Dissolved Oxygen Meter, Open Source, 115V	1

# Water/Wastewater Analysis

(continued)



## Thermo Scientific™ - Barnstead Thermolyne BenchTop Muffle Furnaces, 1100°C

- Digital control push to set
- Ceramic fiber insulation for faster heat-up and reduced energy consumption
- Embedded heating on three sides, top and both sides for improved chamber gradient
- Operating temperature: 100-1100°C



Drop-down door serves as handy shelf for loading and unloading. Door safety switch removes power from the heating elements when the door is opened. Heavy-duty, welded-steel case is finished in two-tone, tan/brown, baked on enamel finish. All models come complete with 3-wire cord and plug.

Thomas No.	Mfr. No.	Description	Each
5310C10	FB1315M	Furnace, 120 V, 8.8 Amps, 1050 Watts	1
5310C13	FB1415M	Furnace, 120 V, 12.5 Amps, 1500 Watts	1

## Labconco FlaskScrubber Glassware Washers

- 36 detachable stainless steel spindles accommodate flasks from 1 to 2000 mL
- Forced air drying through the spindles
- Full two-year warranty



Thomas No.	Mfr. No.	Description	Each
1230E53	4420420	Flaskscrubber, Freestanding, 115V	1
1230E54	4420421	Flaskscrubber, Freestanding, Hi-Heat, 230V	1

## Labconco SteamScrubber Glassware Washers

- Three rotating spray arms (upper, middle and lower)
- Built-in forced air-drying system
- Flexible cycle option
- Full two-year warranty



Thomas No.	Mfr. No.	Description	Each
1230E45	4400420	Steamscrubber, Freestanding, 115V	1
1230E46	4400421	Steamscrubber Freestanding, Hi-Heat, 230V	1

## Benchmark Hotplates, Stirrers and Hotplate Stirrers

- Large Work Surface, 7.5 x 7.5 in.
- Space Saving Design, 8 x 9 in. Footprint
- Chemical Resistant White Ceramic Top Plate
- Safety LEDs Indicate When Heating or Stirring
- Quick and Easy Adjustment of Heating/ Mixing



Thomas No.	Mfr. No.	Description	Each
1227U97	H4000-HS	Hotplate / Stirrer, 7.5" X 7.5", 120V	1
1227U98	H4000-H	Hotplate, 7.5" X 7.5", 120V	1
1227U99	H4000-S	Magnetic Stirrer, 7.5" X 7.5", 120V	1

## Bibby Scientific – Stuart Hotplate with Stirrer

### Choice of top plate:

- Robust coated aluminium
- Chemically resistant ceramic
- Flashing "Hot" warning light
- Accurate temperature control with LED indicator scale
- Compact space saving design



Thomas No.	Mfr. No.	Description	Each
1204L57	US152/120V/60	Undergrad Aluminum Hotplate Stirrer 120V	1
1204L58	UC152/120V/60	Undergrad Ceramic Hotplate Stirrer 120V	1

## Boekel Economy Analog and Digital Incubators

### Analog:

- Manufactured in the US from 22 gauge steel
- Powder-coated exterior for scratch and stain resistance
- Easy-to-clean aluminum interior
- Expanded temperature range of ambient +10 to 90°C
- Blower fan improves the heating and stability of the desired temperature
- See-thru door



### Digital:

- Digital temperature display with a 0.1°C resolution; maximum temp. 60°C
- Rugged metal door and magnetic door latch
- Excellent temperature stability and uniformity
- Smaller than similar capacity incubators, making it ideal for limited spaces
- Additional shelves available

Thomas No.	Mfr. No.	Description	Each
0241D44	132000	Economy Analog Incubator, 0.8 cu.ft., 115V	1
6128T30	133000	Economy Digital Incubator, 120V	1



**m-FC Broth with  
Rosolic Acid, see page 53**

## Benchmark MyTemp™ Mini Incubator

With digital temperature control, the MyTemp™ incubators provide convenient “set and walk away” operation, eliminating the need for external thermometers and repetitive “fine tuning” of an analog control knob. Simply choose the desired temperature and the incubator immediately begins to heat up (or cool down, -HC model only) while accurately monitoring the chamber temperature and conveniently displaying the temperature in real time on the large LED control panel.



Thomas No.	Mfr. No.	Description	Each
1207N78	H2200-H	MyTemp™ Mini Incubator, heat only, 115V	1
1207N79	H2200-HC	MyTemp™ Mini Incubator heat & cool, 115V	1

## Thermo Scientific™ Heratherm Compact Microbiological Incubators

- Minimal benchtop space for space restricted lab areas
- Temperatures at or below ambient: 17° to 40°C
- High temperature accuracy
- Easy-to-use interface
- Internal light and window in door facilitates sample observation
- Temperature uniformity of  $\pm 1.2^{\circ}\text{C}$  (measured at 37°C)
- Temperature stability of  $\pm 0.2^{\circ}\text{C}$  (measured at 37°C)



Thomas No.	Mfr. No.	Description	Each
1218W89	50125590	IMC18 HERATHERM Compact Incubator; Mechanical Convection; 0.65 cu.ft. (18 L); 17 to 40 C; 120-230VAC; 50/60 Hz	1

See [www.thomasci.com](http://www.thomasci.com) for Heratherm General Protocol Incubators.

## Thermo Scientific™ Precision Refrigerated Incubators

These incubators feature microprocessor controls and forced air circulation, the Precision refrigerated incubators are ideal for applications that require temperatures from -10°C to 50/60°C (5°F to 140°F) with excellent temperature control and stability.

Easy-to-clean, corrosion-resistant construction. Compressor relay conserves energy. 2A outlet easily supports apparatus inside the unit.



Thomas No.	Mfr. No.	Description	Each
1188H19	PR505755R	Incubator Refrigerated, Model 815, 20 cu ft, 120V-60Hz, -10°C to +50°C, energy efficient design - with cooling switch	1
1188H20	PR505750R	Incubator Refrigerated, Model 815, 20 cu ft, 230V-50Hz, -10°C to +50°C, energy efficient design - with cooling switch	1
1226S52	PR205740R	Incubator Refrigerated, 6.1 Cu. Ft., 230V	1
1226S53	PR205745R	Incubator Refrigerated, 6.1 Cu. Ft., 115V	1

## Thermo Scientific™ Orion™ DUAL STAR pH / ISE Meters

Combines the best of the Orion 720A+ and 920A+ meters with the advantages of the Orion Star Plus meters.



Thomas No.	Mfr. No.	Description	Each
1226F28	2115101	DUAL STAR pH/ISE Meter, 8102BNUWP ROSS Ultra Electrode, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Mini-USB to USB CableE, Universal Power Adapter & User Guide	1
1226F27	2115000	DUAL STAR pH/ISE Meter, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Universal Power Adapter & User Guide	1
1226F26	2115001	DUAL STAR pH/ISE Meter, 8102BNUWP ROSS Ultra Electrode, 090043 Electrode Stand, 927007MD ATC Probe, 1010053 RS232 Cable, Mini-USB to USB Cable, pH 4, 7, 10 Buffer and Storage Soln, Universal Power Adapter & User Guide	1

## Thermo Scientific™ Orion™ Star™ A111 pH Benchtop Meter

- Large, informative screen clearly shows the main information, including pH or mV reading, temperature, meter mode, calibration information and power source
- Don't miss a reading — AUTO-READ\* locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to three point pH calibration
- Automatic recognition of USA/NIST and DIN buffers
- Easily recall calibration slope data for procedure checks
- Non-volatile memory holds up to 50 data points



Thomas No.	Mfr. No.	Description	Each
1218X22	STARA1110	Star A111 pH BT Meter with Electrode Stand	1
1218X23	STARA1115	Star A111 pH BT Meter with Electrode Stand; 9157BNMD Epoxy Refillable pH/ATC Triode; 916099 pH Buffer 60mL Kit (pH 4, 7, 10 Buffer, Storage and Cleaning Solutions)	1

## Thermo Scientific™ Orion™ Star™ A113 Dissolved Oxygen Benchtop Meter

- Large, informative screen clearly shows the main information, including DO reading in mg/L or % saturation, temperature, meter mode and power source
- Automatic temperature, manual salinity input and manual barometric pressure compensation for an accurate result
- Don't miss a reading—AUTOREAD locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Two calibration options to meet your requirements: water-saturated air method or manual input using a Winkler titration



Thomas No.	Mfr. No.	Description	Each
1218X30	STARA1130	Star A113 DO BT Meter with Electrode Stand	1
1218X31	STARA1135	Star A113 DO BT Meter with Electrode Stand; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 080513 Probe Maintenance Kit	1



# Water/Wastewater Analysis

(continued)



## Thermo Scientific™ Orion™ Star™ A215 pH/Conductivity Benchtop Multiparameter Meter

- Up to five point pH calibration with automatic recognition for USA/NIST and DIN buffers and calibration editing to fix errors without a complete recalibration
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For accurate conductivity results, selectable reading reference temperatures of 5°, 10°, 15°, 20° or 25°C with linear, non-linear, nLFu or EP curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software



Thomas No.	Mfr. No.	Description	Each
1218X53	STARA2155	Star A215 pH/Conductivity BT Meter with Electrode Stand; 8157BNUMD Thermo Scientific™ ROSS™ Epoxy Refillable pH/ATC Triode; 013005MD DuraProbe Epoxy 4-Cell (K=0.475) Conductivity Cell with 1.5 Meter Cable; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 011007 Conductivity 1413uS/cm Standard, 5x60mL	1
1218Y22	STARA2155	Star A215 pH/Conductivity BT Meter with Electrode Stand	1

## Thermo Scientific™ Orion™ Star™ A214 pH/ISE Benchtop Meter

- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers
- Whether you use ISE infrequently or have multiple samples every day – up to 5 point ISE calibration with advanced features such as non-linear selectable auto-blank and low-concentration range stability
- Fix errors without a complete recalibration with the calibration editing function
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software



Thomas No.	Mfr. No.	Description	Each
1218X49	STARA2145	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 096019 Stirrer Probe; 810199 Thermo Scientific™ ROSS™ pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle)	1
1218X48	STARA2140	Star A214 pH/ISE BT Meter with Electrode Stand	1
1218X50	STARA2146	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 9512HPBNWP High-Performance Ammonia Electrode; 096019 Stirrer Probe; 951007 Ammonia 1000ppm Standard, 475mL; 951210 Low-level Ammonia ISA, 475mL; 951213 Ammonia Electrode Storage Solution, 475mL	1
1218X51	STARA2147	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 9609BNWP Fluoride Electrode; 096019 Stirrer Probe; 040906 Fluoride 1ppm with TISAB II Standard, 475mL; 040907 Fluoride 2ppm with TISAB II Standard, 475mL; 040908 Fluoride 10ppm with TISAB II Standard, 475mL; 940909 TISAB II, 1 Gallon	1
1218X52	STARA2148	Star A214 pH/ISE BT Meter with Electrode Stand; 8102BNUWP Thermo Scientific™ ROSS™ Ultra Glass Refillable pH Electrode; 927007MD Stainless Steel ATC Probe; 8611BNWP Sodium Electrode with Sodium Standards, Reagents and Solutions; 096019 Stirrer Probe	1

## Thermo Scientific™ Orion™ VERSA STAR™ pH/ISE/ Conductivity/RDO/DO Benchtop Meter

This versatile meter has a large, color graphic LCD display. The informative display shows readings, connections, time, date, sample ID, user ID and calibration information.



Thomas No.	Mfr. No.	Description	Each
1218X85	VSTAR90	VERSA STAR BT Meter with Electrode Stand; VSTAR-ISE pH/ISE Module; VSTAR-CND Conductivity Module; VSTAR-RD RDO/DO Module	1
1218X86	VSTAR92	VERSA STAR BT Meter with Electrode Stand; VSTAR-ISE pH/ISE Module; VSTAR-CND Conductivity Module; VSTAR-RD RDO/DO Module; 8157BNUMD Thermo Scientific™ ROSS™ Epoxy Refillable pH/ATC Triode; 013005MD DuraProbe Epoxy 4-Cell (K=0.475) Conductivity Cell with 1.5 Meter Cable; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 096019 Stirrer Probe; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 011007 Conductivity 1413uS/cm Standard	1

## Thermo Scientific™ Orion™ Star A216 pH/Dissolved Oxygen Benchtop Multiparameter Meter

Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows individual pH/mV/RmV result, dissolved oxygen in percent saturation or concentration results with temperature, or all results at once. Additional helpful information includes electrode status, time, date, sample ID, user ID and calibration. For advanced users, features such as stability and averaging choices provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X54	STARA2160	Star A216 pH/RDO/DO BT Meter with Electrode Stand	1
1218X55	STARA2165	Star A216 pH/RDO/DO BT Meter with Electrode Stand; 8157BNUMD ROSS Epoxy Refillable pH/ATC Triode; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 810199 ROSS pH Buffer Kit (pH 4, 7, 10 Buffer, ROSS Storage and Cleaning Solutions, Electrode Storage Bottle); 080513 Probe Maintenance Kit; 970802 BOD Funnel and Stirrer; 080360 BOD Adapter	1

## Thermo Scientific™ Orion™ Star™ A213 Dissolved Oxygen Benchtop Meter

An ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows dissolved oxygen in percent saturation or concentration and temperature along with time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging options and flash expansion through the USB provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X44	STARA2135	Star A213 RDO™/DO BT Meter with Electrode Stand; 083005MD Polarographic DO Probe with 1.5 Meter Cable and Calibration Sleeve; 080513 Probe Maintenance Kit; 970802 BOD Funnel and Stirrer; 080360 BOD Adapter	1
1218X43	STARA2130	Star A213 RDO/DO BT Meter with Electrode Stand	1



## Thermo Scientific™ Orion™ Star™ A329 pH/ISE/Conductivity/ Dissolved Oxygen Portable Multiparameter Meter

This meter is the top choice for advanced multiparameter measurements on location. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display can show each parameter with temperature individually or all three with temperature on one screen.



Thomas No.	Mfr. No.	Description	Each
1218X69	STARA3295	Star A329 pH/ISE/Cond/RDO/DO Hand-Held Meter; 8107UWMD Thermo Scientific™ Gel-filled Epoxy pH/ATC Triode (3m Cable); 013010MD Epoxy 4-Cell (K=0.475) Conductivity Probe (3m Cable); 087010MD RDO Optical DO Probe (3m Cable); 910410-WA pH 4 Buffer Pouches; 910710 pH 7 Buffer Pouches; 911010 pH 10 Buffer Pouches; 810001 ROSS Electrode Storage Solution; 01100710 Conductivity 1413uS Standard Pouches; 911110 Rinse Solution Pouches; STARA-CS Star A Hand-Held Meter Hard Field Case & STARA-AR Star A Hand-Held Meter Armor	1
1218X68	STARA3290	Star A329 pH/ISE/Cond/RDO/DO Hand-Held Meter	1

## Thermo Scientific™ Orion™ Star™ A212 Conductivity Benchtop Meter

This meter is the ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows conductivity/TDS/salinity/resistivity and temperature along with time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging choices provide additional options.



Thomas No.	Mfr. No.	Description	Each
1218X39	STARA2125	Star A212 Conductivity BT Meter with Electrode Stand; 013005MD Epoxy 4-Cell (K=0.475) Conductivity Probe with 1.5 Meter Cable; 011007 Conductivity 1413uS/cm Standard, 5x60mL	1
1218X38	STARA2120	Star A212 Conductivity BT Meter with Electrode Stand	1

## Thermo Scientific™ Orion™ Star™ A121 pH Portable Meter

Portable meters combine simplicity with accuracy. A large LCD displays pH or mV readings along with temperature. Icons provide quick updates on battery life, electrode status and calibration information. Simple button layout and onscreen messages help with calibration and setup menu choices.



Thomas No.	Mfr. No.	Description	Each
1218X25	STARA1215	Star A121 pH Hand-Held Meter with Electrode Stand; 9107BNMD Gel-filled Epoxy pH/ATC Triode with 1.5 Meter Cable; 916099 pH Buffer 60mL Kit (pH 4, 7, 10 Buffer, Storage and Cleaning Solutions); 911110 Rinse Solution Pouches; STARA-CS Star A Hand-Held Meter Hard Field Case; STARA-AR Star A Hand-Held Meter Armor	1
1218X24	STARA1210	Star A121 pH Hand-Held Meter	1

## Oakton pH 700 Benchtop Meter

- Compact footprint is over 40% smaller than other benchtop meters
- Large display permits easier readout viewing
- Datalogging allows you to store and recall up to 100 data sets

The easy-to-use, microprocessor-based pH 700 benchtop meter measures pH, mV, relative mV, and temperature. The large, dual-display LCD provides excellent visibility—even from a distance. Automatic temperature compensation (ATC) maintains reading accuracy even with fluctuating temperatures



Thomas No.	Mfr. No.	Description	Each
1223L12	WD-35419-10	pH 700 Benchtop Meter, pH probe, Stand	1

## Oakton Waterproof pH/CON 450 Meter

Select meter with combination pH/CON probe or separate pH and conductivity probes

- Intuitive, user-friendly icons—electrode status displays pH slope
- Grip-Clip electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets
- Extended battery life or optional universal power adapter
- Built-in stand with wall mount allows for easy benchtop measurement or storage



Thomas No.	Mfr. No.	Description	Each
1196L42	WD-35630-10	pH/CON 450 Meter w/Combination probe	1
1196L43	WD-35630-11	pH/CON 450 Meter w/Combination probe w/NIST certification	1
1196L44	WD-35630-12	pH/CON 450 Meter w/Separate probes	1
1196L45	WD-35630-13	pH/CON 450 Meter w/Separate probes w/NIST certification	1
1196L46	WD-35630-80	pH/CON 450 Meter w/Combination probe kit	1
1196L47	WD-35630-81	pH/CON 450 Meter w/Combination probe kit w/NIST certification	1
1196L48	WD-35630-90	pH/CON 450 Meter w/Separate probes kit	1
1196L49	WD-35630-91	pH/CON 450 Meter w/Separate probes kit w/NIST certification	1
1196L50	WD-35630-51	pH/Con Probe	1
1196L51	WD-35630-53	Data cable for USB connectivity; 2700 and 450 Meters	1
1196L52	WD-35641-51	pH electrode, double-junction, epoxy body, sealed, polygel	1

# Water/Wastewater Analysis

(continued)



## Oakton Benchtop pH 2700 pH/mV/Temperature Meter and Accessories

- Large display with bright backlight
- Dynamic reading stability indication indicates when your measurement is stable
- Up to 500-point memory with date-time stamp for GLP
- Password protection for both setup and calibration for security
- Calibration-due alarm let you know when to recalibrate
- Audible alarms alert you when reading fall out of range
- Output data to either printer or PC



Thomas No.	Mfr. No.	Description	Each
1221Z29	WD-35420-20	pH 2700 Benchtop Meter with pH electrode	1

## Oakton Waterproof pH 450 Meter

**Backlit, rugged waterproof meter is ideal for any environment**

- Intuitive, user-friendly icons—electrode status displays pH slope
- Grip-Clip™ electrode holder quickly and easily secures electrode to side of beaker or container
- USB or RS-232 output for up to 500 data sets
- Extended battery life or optional universal power adapter
- Built-in stand with wall mount option allows for easy benchtop measurement or storage



Thomas No.	Mfr. No.	Description	Each
1196L32	WD-35618-33	pH 450 Meter and Probe with NIST certificate	1
1196L33	WD-35618-90	pH 450 Meter Kit	1
1196L34	WD-35618-91	pH 450 Meter Kit with NIST certificate	1
1196L35	WD-35618-30	pH 450 Meter and Probe	1
1196L36	WD-35420-01	RS232 Cable for OAKTON 450 Series meters	1
1196L37	WD-35420-72	100/240VAC 9V 6W Adapter	1

## YSI Pro Plus Multiparameter Instrument

**The ultimate handheld sampling instrument**

Do your job with confidence even in the harshest field conditions. The drop-tested Pro Plus was designed tough with military-spec connectors, a two-year warranty on all cables, weighted sensor guards, and a rubber over-molded case with three-year warranty. Its interchangeable sensors and extra-durable cables nearly eliminate down time. And its low overall cost of ownership means you're making a worthwhile investment for years to come.



Thomas No.	Mfr. No.	Description	Each
1234T56	6050000	Pro Plus Multiparameter Instrument	1

## YSI ProODO™ Handheld Optical Dissolved Oxygen Meter

- Military Spec (MS) connectors
- Field tested cables
- Rugged, weighted probe guard
- 2,000 data-set memory
- Expanded DO range of 0-500% (0-50 mg/L)
- Fits standard 300 mL BOD bottle in the lab
- Backlit display and keypad
- Detailed GLP data
- 100 folders and site lists for logging data with user defined fields
- Cable options from 1- to 100-meters including a cable management kit on 4-meter and longer cables



Thomas No.	Mfr. No.	Description	Each
1228X82	626281	Proodo Optical DO Meter	1
1228X84	626250-1	Cable 1-M Do / Temp	1
1228X85	626250-4	Cable 4-M Do / Temp	1
1228X86	626250-10	Cable 10-M Do / Temp	1
1228X94	605790-4	Cable 4-M Dual ISE / Do / Temp	1
1228X95	605790-10	Cable 10-M Dual ISE / Do / Temp	1
1221X61	626400	Optical BOD Probe	1

## YSI Pro20 Dissolved Oxygen

**Handheld dissolved oxygen instrument for the lab or field!**

Rugged and reliable, the Pro20 provides everything you need in a handheld dissolved oxygen instrument. User-replaceable sensors and cables, 50 data set memory, and convenient One Touch Cal feature makes it user friendly. Mil-spec (military spec) connectors, IP-67 waterproof and rubber over molded case, and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.



Thomas No.	Mfr. No.	Description	Each
1234T22	6050020	Pro20 Dissolved Oxygen, Handheld	1
1234T18	60520-4	Do / Temp 4-Meter Cable Assembly	1
1234T19	60520-10	Do / Temp 10-Meter Cable Assembly	1
1221X58	605780	Polarographic Self-Stirring BOD Probe	1
1234T24	605203	Polarographic DO Sensor	1

## YSI Pro2030 Dissolved Oxygen/Conductivity

**Handheld DO, Conductivity, Salinity, TDS, Temperature**

Rugged and reliable, the Pro2030 provides everything you need in a handheld dissolved oxygen instrument with conductivity. Automatically compensates DO readings for changes in salinity. User-replaceable DO sensors and cables, 50 data set memory, and simple DO calibration makes the Pro2030 user friendly. Rugged design and 1-meter drop tests ensure the instrument remains in your hands to provide years of sampling even in the harshest field conditions.



Thomas No.	Mfr. No.	Description	Each
1234T46	6052030-4	Do / Cond / Temp 4-Meter Cable Assembly	1



For **Electrodes and Probes**, see pages 37-38  
For **Buffers and Solutions**, starting on page 55





Trace Metal  
Monitoring



MODERNWATER

*Providing monitoring solutions  
to industries, laboratories and  
universities for:*

- Source Water Protection
- Process Control
- Event Monitoring
- WET Surrogate



Toxicity  
Monitoring



Environmental  
Monitoring



Fluorometers

## Modern Water Microtox® Rapid Toxicity Detection

Microtox® rapid toxicity detection is an *in vitro* test system that uses bioluminescent bacteria for the detection of toxicity in water and is used as a screening system to detect the relative toxicity of a sample. Applications include the testing of sample containing biological toxins, industrial effluent, industrial process waters, municipal effluent, drinking water eco toxicological samples, hazardous waste, soil, sediments, storm water and medical products for bio reactivity.



Thomas No.	Mfr. No.	Description	Each	Pack
1199R87	AZF50A000	Microtox Model 500 Analyzer, 120V	1	—
1199R88	AZF50H100	Microtox Omni Windows-based Software	1	—
C974V49	AZF686060	Microtox Acute Reagent Starter Pack	1	—
C974V50	AZF686018A	Microtox Acute Reagent	—	10
C974V53	AZF686016	Microtox Reconstitution 50mL Sterile Salt Solution	1	—

## Modern Water Atrazine RaPID Assay®

- Quantitative data results with excellent analytical precision
- Results available in approximately 60 minutes
- Tests up to 50 samples at once
- Magnetic particle immunoassay
- Training available
- EPA SW-846 method #4670 for drinking water



Thomas No.	Mfr. No.	Description	Pack
1199Z26	A00071	Atrazine RaPID Assay	100

## Modern Water DeltaTox® II Portable Toxicity & Bio-Contaminant Detection

DeltaTox® II instrument has a combined detection capability that provides a very sensitive and rapid test to detect two of the most probable classes of agents, pathogens and toxic chemicals that may accidentally or intentionally contaminate drinking water or wastewater. Acute toxicity and ATP detection capabilities make it the ideal instrument for rapidly and accurately assessing if the quality of drinking water, from the source to the tap, has been affected by an incident.



Thomas No.	Mfr. No.	Description	Each	Pack
1199R89	AZF848520	DeltaTox II Test System	1	—
1199R90	AZF848523	DeltaTox II Analyzer w/ Case	1	—
C974V54	AZF686300	Single Use Reagent for measuring chemical toxicity in water	—	50
C974V55	AZF787400	ATP Biomass Reagent Set for measuring microbial activity in water samples	—	100
C974V51	AZF686011	Microtox Diluent 1L Bottle Sterile Salt Solution	1	—
C974V52	AZF686019	Microtox Osmotic Adj 50mL Sterile Salt Solution	1	—

## Modern Water 2nd Generation ATP Test Kits

Luminutra's 2nd Generation ATP kits provide fast, complete, and accurate insight into microbiological activity. Both portable and easy-to-use, the test kits provide an interference-free indication of total microbial quantity within minutes of sample collection allowing you to save valuable time, help you better manage risk and reduce operating costs. In addition, our highly skilled and knowledgeable staff offers close support every step of the way to achieve your goals.



Thomas No.	Mfr. No.	Description	Each
1196R87	QGA-25C	Quench-Gone Aqueous ATP Test Kit (for Low-Solids Waters), 25 Tests	1
1196R88	QGA-100C	Quench-Gone Aqueous ATP Test Kit (for Low-Solids Waters), 100 Tests	1
1196R89	QGOM-25C	Quench-Gone Organic-M ATP Test Kit (for Low-Solids Organic Fluids), 25 Tests	1
1196R90	QGOM-100C	Quench-Gone Organic-M ATP Test Kit (for Low-Solids Organic Fluids), 100 Tests	1
1196R91	QG21W-25C	Quench Gone21 Wastewater ATP Test Kit (for Biological Reactors), 25 Tests	1
1196R92	DSA-25C	Deposit and Surface Analysis ATP Test Kit (for Biofilms and Deposits), 25 Tests	1

## Modern Water PDV6000ultra Portable Metal Monitor

Measuring trace metals in water, soil and food has always been a vital part of modern environmental monitoring. Voltammetry offers an internationally accepted alternative to laboratory analysis. Modern Water's PDV provides better on-site characterisation, with pollution hot spots and contamination sources more easily identified.

**Contact your Thomas representative to inquire on what metals can be detected.**



Thomas No.	Mfr. No.	Description	Each
1195V23	IK60000000001	PDV6000ultra Hg Electrode	1
1195V24	IK60000000002	PDV6000ultra Au Electrode	1
1195V25	IK60000000003	PDV6000ultra Au Solid Electrode	1
1195V26	IK60000000004	PDV6000ultra Bare Carbon Electrode	1

# Water/Wastewater Analysis

(continued)



## Adam Equipment PMB Moisture Analyzers

**Fast response time and easy-to-use functionality make PMB the ideal moisture analyzer for wastewater testing.**

The automatic test setting function lets you quickly run multiple tests without additional user input and the built-in memories lets you store that data for future reference. The PMB offers smart features that have been developed to give you the ultimate performance for moisture analysis.



Thomas No.	Mfr. No.	Description	Each
1224C81	PMB 53	PMB Moisture Analyzer, 50g x 0.001g/0.01%, 110V	1
1224C82	PMB 202	PMB Moisture Analyzer, 200g x 0.01g/0.05%, 110V	1

## Thermo Scientific™ Heratherm General Protocol Gravity Convection Ovens

Gravity convection units are designed to protect delicate samples while offering temperature uniformity of  $\pm 4^{\circ}\text{C}$  or better, and temperature stability of at least  $\pm 0.4^{\circ}\text{C}$  at  $150^{\circ}\text{C}$ .

- Three sizes (60, 100 or 180L)
- Operating temperatures from  $50^{\circ}$  to  $250^{\circ}\text{C}$
- Automatic over-temperature alarm system to protect samples
- Low overall energy consumption
- Built in timer
- Excellent footprint/volume ratio
- Corrosion-resistant galvanized steel chambers with rounded corners for easy cleaning
- Large, easy to read vacuum fluorescent display
- Easy to use, microprocessor-controlled touch button operation
- Easy to access—doors can be opened to over  $180^{\circ}\text{C}$
- All ovens come with 2 shelves



Thomas No.	Mfr. No.	Description	Each
1218W49	51028112	OGS60; HERATHERM General Protocol Oven; Gravity Convection; 2.3 cu.ft. (65 L); $50$ to $250^{\circ}\text{C}$ ; 120VAC, 60Hz	1
1218W45	51028872	OGS100; HERATHERM General Protocol Oven; Gravity Convection; 3.75 cu.ft. (105 L); $50$ to $250^{\circ}\text{C}$ ; 208-240VAC; 60Hz	1
1218W46	51028874	OGS180; HERATHERM General Protocol Oven; Gravity Convection; 6.2 cu.ft. (176 L); $50$ to $250^{\circ}\text{C}$ ; 120V, 60 Hz	1

## Thermo Scientific Cimarec+™ Stirring Hot Plates Series

Thermo Scientific™ Cimarec+™ series digital stirring hotplates offer precise stirring control, exceptional safety and temperature performance for your routine protocols. The Cimarec+ Series are available in three sizes, providing flexibility from microscale chemistries to production operations.



Thomas No.	Mfr. No.	Description	Each
1187P02	SP88854100	Cimarec+ Ceramic Top Hotplate Stirrer, 4 x 4", 100-120V, 50/60Hz	1
1187P04	SP88857100	Cimarec+ Ceramic Top Hotplate Stirrer, 7 x 7", 100-120V, 50/60Hz	1
1187P10	SP88850100	Cimarec+ Ceramic Top Hotplate Stirrer, 10 x 10", 100-120V, 50/60Hz	1

## Boekel Gravity Convection Ovens

**Reaches  $200^{\circ}\text{C}$   
in approximately  
30 minutes**

- Range is  $100^{\circ}$  to  $225^{\circ}\text{C}$  with uniformity  $\pm 1^{\circ}\text{C}$
- Temperature is regulated by a bi-metallic thermostat
- Pilot light indicates when elements are on
- Ventilating holes are provided below the heater permitting ambient air to enter at bottom; air passes through heater and exhausts from two vents at the top
- Chamber temperature is indicated by thermometer passed through thermometer holder at top of oven
- Double-walled, aluminum, enameled steel exterior and glass wool insulation; mounted on rubber feet
- Door has continuous hinge, latch and spring catch
- Two removable, nickel-plated wire shelves and thermometer are provided



Thomas No.	Mfr. No.	Description	Each
7187C10	107800	Drying Oven, 0.6 cu ft., 115V, 660W	1
7187C20	107801	Drying Oven, 2.7 cu ft., 115 V, 1500W	1
7187C17	107905	Drying Oven, 1.6 cu ft., 115V, 660W	1

## Thermo Scientific™ Precision Compact Ovens

Featuring a compact design, the Precision basic ovens are ideal for your drying and baking applications with a temperature range of ambient  $+5^{\circ}\text{C}$  to  $210^{\circ}\text{C}$ .

### Efficient, Space-Saving Design

Compact footprint conserves valuable benchtop space and ovens are easily stackable for further efficiency.



### Choice of Mechanical or Gravity-Flow Models

Mechanical models provide uniform heating, precise temperature control and fast drying. Models also feature hydraulic thermostat, LED display and a stainless steel chamber. Gravity-flow models offer gentle drying with heat-generated convection that moves the air vertically through the oven chamber to heat samples. Gravity models feature bi-metallic thermostat and aluminum chamber.

### Over-Temperature Protection

Pre-set high temperature safety thermostat ensures over-temperature protection. Pilot light visually indicated oven operation status.

### Durable Construction

Features a double wall interior with 1" (2/5 cm) silica-based insulation and powder-coated, cold-rolled steel exterior.

### Two Sizes

0.7 Cu. Ft. (19.8L) includes one fixed and two adjustable shelves\*

1.7 Cu. Ft. (161.4L) includes one fixed and two adjustable shelves\*

Thomas No.	Mfr. No.	Description	Each
1226S04	PR305225G	Oven Gravity Compact 1.7 Cu Ft 120V	1
1226S05	PR305220G	Oven Gravity Compact 1.7 Cu Ft 240V	1
1226S06	PR305225M	Oven Mechanical Compact 1.7 Cu Ft 120V 60Hz	1
1226S07	PR305220M	Oven Mechanical Compact 1.7 Cu Ft 240V 50Hz	1



**For additional Equipment and Instrumentation, see pages 33-40**



## Thermo Scientific™

### GP Series Laboratory Refrigerators



1218W09



1218W36



1218W43

- Refrigerator cabinet temperature range: 1° to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of  $\pm 3^\circ\text{C}$
- High-density, fluorine free insulation
- Automatic defrost
- Keyed on/off switch
- Optional chart recorder
- High/Low Temperature, Visual/Audio alarms
- Choice of solid or glass lockable doors (refrigerators only)
- Easily accessible contacts for backup monitoring
- Door ajar alarm (except sliding glass doors)
- Control panel with key lock
- Painted, high-quality steel exterior
- Choice of painted or stainless steel interior (refrigerators only)
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- 1 in. rear access port
- Certifications: UL listed

Thomas No.	Mfr. No.	Description
1218W09	MR12PA-GAEE-TS	12 cf lab refrigerator 120/60, Glass doors
1218W10	MR12PA-GARE-TS	12 cf lab refrigerator 120/60 w/chart recorder, Glass doors
1218W11	MR25PA-GAEE-TS	25 cf lab refrigerator 120/60, Glass doors
1218W12	MR25PA-GARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, Glass doors
1218W13	MR25PA-SAEE-TS	25 cf lab refrigerator 120/60, Stainless steel doors
1218W14	MR25PA-SARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, Stainless steel doors
1218W15	MR25SS-GAEE-TS	25 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W16	MR25SS-GARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W17	MR25SS-SAEE-TS	25 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W18	MR25SS-SARE-TS	25 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W19	MR30PA-GAEE-TS	30 cf lab refrigerator 120/60, glass doors
1218W20	MR30PA-GARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, glass doors

Thomas No.	Mfr. No.	Description
1218W21	MR30PA-SAEE-TS	30 cf lab refrigerator 120/60, stainless steel doors
1218W22	MR30PA-SARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel doors
1218W23	MR30SS-GAEE-TS	30 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W24	MR30SS-GARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W25	MR30SS-SAEE-TS	30 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W26	MR30SS-SARE-TS	30 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W27	MR38PA-GAEE-TS	38 cf lab refrigerator 120/60, glass doors
1218W28	MR38PA-GARE-TS	38 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W29	MR45PA-GAEE-TS	45 cf lab refrigerator 120/60, glass doors
1218W30	MR45PA-GARE-TS	45 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W31	MR45SS-GAEE-TS	45 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W32	MR45SS-GARE-TS	45 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W33	MR49PA-GAEE-TS	49 cf lab refrigerator 120/60, glass doors
1218W34	MR49PA-GARE-TS	49 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W35	MR49PA-SAEE-TS	49 cf lab refrigerator 120/60, stainless steel doors
1218W36	MR49PA-SARE-TS	49cf lab refrigerator 120/60 w/chart recorder, stainless steel doors
1218W37	MR49SS-GAEE-TS	49 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W38	MR49SS-GARE-TS	49cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors
1218W39	MR49SS-SAEE-TS	49 cf lab refrigerator 120/60, stainless steel interior, stainless steel doors
1218W40	MR49SS-SARE-TS	49 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, stainless steel doors
1218W41	MR72PA-GAEE-TS	72 cf lab refrigerator 120/60, glass doors
1218W42	MR72PA-GARE-TS	72 cf lab refrigerator 120/60 w/chart recorder, glass doors
1218W43	MR72SS-GAEE-TS	72 cf lab refrigerator 120/60, stainless steel interior, glass doors
1218W44	MR72SS-GARE-TS	72 cf lab refrigerator 120/60 w/chart recorder, stainless steel interior, glass doors

## Bibby Scientific - Jenway Genova Spectrophotometers

- 3 in 1 spectrophotometer
- Ideal for DNA, RNA and Protein measurements
- Only 0.5µl sample volume required
- Easy and quick to clean
- Detects DNA concentrations as low as 2ng/µl
- Method and result saving to USB memory stick
- 3 year warranty including Xenon lamp



Thomas No.	Mfr. No.	Description	Each
1207T95	736-501	Genova Plus Life Sci Spectrophotometer	1





## Thermo Scientific™ Orion™ AquaMate™ 8000 and 7000 UV-Vis Spectrophotometers

### AquaMate 8000 UV-Vis Spectrophotometer

The Thermo Scientific Orion AquaMate 8000 UV-Vis Spectrophotometer offers the accuracy, dependability and ease of use your lab requires. The compact design, intuitive operation and innovative features of this AquaMate spectrophotometer will ensure your lab will have the ideal instrument for water analysis and beyond. Choose the AquaMate 8000 UV-Vis with full 190 to 1100nm wavelengths for the most extensive measurement options.



Thomas No.	Mfr. No.	Description	Each
1205V48	AQ8000	Orion AquaMate 8000 UV-VIS Spectrophotometer, includes methods on USB memory stick, 6-position vial holder turret, 3-position vial holder turret, 1-position vial holder turret, user documentation, dust cover, USB cable, 110V and 220V power cords	1
1205V49	AQ7000	Orion AquaMate 7000 VIS Spectrophotometer, includes methods on USB memory stick, 3-position vial holder turret, user documentation, dust cover, USB cable, 110V and 220V power cords	1

## A good lab depends on expert equipment and accurate results.

At Thermo Fisher Scientific we combine intelligent design with quality craftsmanship to give you the tools you need for effective water analysis. Thermo Scientific™ Orion™ AquaMate™ Spectrophotometers are the ideal instruments for water and wastewater analysis laboratories, combining world-renowned innovative technology, compact design and ease of use to obtain reliable, accurate results.



For additional information visit  
www.thomassci.com Keyword: 1205V48



**Thermo**  
SCIENTIFIC

## Welch Model 2019 Vacuum Pump

Affordable Model 2019 vacuum pump is durable and chemical resistant. Use Model 2019 for vacuum filtration, desiccation, degassing, and other mid-range vacuum applications. Free air flow 37L/min; Maximum vacuum 24" Hg.

Pump can also be used to pressurize up to 18 PSIG. Comes standard with 115V line cord and convenient power switch.



Thomas No.	Mfr. No.	Description	Each
1204C21	2019B-01	Vacuum filtration pump, Chemical resistant, 37 L/min, 24" Hg, 115V	1

## Welch WOB-L Piston Vacuum Pumps

- Standard duty
- Oil Free

Use these compact Welch pumps for dry or water vapor applications. Filtration, aspiration, SPE. Select higher flow model for more funnels. Portable, controllable vacuum / pressure. 115V



Thomas No.	Mfr. No.	Description	Flow Rate	Vacuum, in. Hg.	Each
7893N65	2522B-01	Vacuum pump	22 l/min	26	1
7893N67	2534B-01	Vacuum pump	34 l/min	27.2	1
1233K63	2546B-01	Vacuum pump	46 l/min	27.6	1

## Welch Utility Vacuum Pumps

- Standard Duty

Handy Welch pump is perfect for basic lab vacuum operations. Dry or aqueous vapors only, portable, vacuum or pressure. 115V



Thomas No.	Mfr. No.	Description	Flow Rate	Vacuum, in. Hg.	Each
1208U26	2511B-01	Vacuum pump	11 l/min	21.3	1




**COD Analysis Kits**, see page 11




**WELCH**  
by Gardner Denver

## Vacuum Pumps and Systems


**Model 2019 Vacuum Pump**  
Pump is durable and chemical resistant



**WOB-L Piston Vacuum Pump**  
The right solution for life science vacuum applications



**Utility Vacuum Pump**  
Perfect for basic lab vacuum operations



## Hach Digital Titrator

- Faster than a buret
- Accurate to  $\pm 1\%$
- Completely portable
- Interchangeable cartridges

Hach's digital titrator is fast, accurate and produces repeatable results. It uses concentrated titrants packaged in compact, interchangeable cartridges formulated for measuring over 40 parameters.



Thomas No.	Mfr. No.	Description	Each
9866K53	1690001	Digital Titrator w / Case, Manual & 5 Straight Delivery Tubes	1

## Lab Synergy TitroLine® 7000

- High visibility, full color display that can be easily viewed from a distance and at extreme angles
- Reagent data is securely stored in the intelligent and interchangeable modules
- Automatic wireless recognition of SCHOTT® Instruments ID electrodes guarantees accurate calibration and measurements (TitroLine® 7000)
- Touch keypad interface for error free operation
- Includes three USB and two RS23201 ports for expansion and connection of devices such as USB storage of methods and data, stirrer, laboratory balance, PC and additional SI Analytics peripheral devices
- Versatile and flexible for a variety of applications



Thomas No.	Mfr. No.	Description	Each
1203Z12	285220100	TitroLine® 7000, Basic unit without magnetic stirrer, with stand rod and titration clamp Z 305, power supply 100-240 V	1

## Thermo Scientific™ - Barnstead Mega-Pure Water Stills and Accessories

Simple operation and highly dependable, for producing biologically pure, pyrogen-free water.

- Choose from three models depending upon your specific volume needs
- Features a vertical condenser for maximum efficiency and removal of gaseous impurities
- Pyrex® trap to remove airborne contaminants
- Choice of wall or bench-mounting



Thomas No.	Mfr. No.	Description	Each
3915G20	A440267	Water Still, Model Mp-1, 120V	1
3915L41	A440367	Water Still, Model Mp-3A, 240V	1
0319G61	A440266	Water Still, Model Mp- Without Bottle CSA	1

## LaMotte Dissolved Oxygen Test Kit

### Direct Reading Titrator

- Sufficient for 50 tests at 10ppm
- Uses azide modification of the Winkler Method
- Azide eliminates nitrite interference
- Range/sensitivity is 0-10ppm/0.2ppm



Thomas No.	Mfr. No.	Description	Each
9860J78	5860-01	Dissolved Oxygen Kit	1
9860J79	R-5860	Dissolved Oxygen Refill Kit	1

## LaMotte Water Test Strips

Insta-Test® strips are available to perform checks for water quality factors. Test strips are a quick way to monitor water without having to use reagents.



Thomas No.	Mfr. No.	Description	Each
9591D27	2974	Insta-Test Strips®, pH, Wide Range, Vial 50	1
9591D29	2994	Insta-Test Strips®, Iron and Copper, Vial 50	1

## Thermo Scientific RT Large Basic Stirrers and Plate cover

- Strong magnetic coupling to ensure consistent stirring during experimental procedures
- Three size options
- Low profile lightweight design with small footprint
- Speed Control: 150 to 2500rpm
- Two non-slip silicone plate covers provided with all units (1 black, 1 white)



Thomas No.	Mfr. No.	Description	Each
1199A25	88880011	RT Basic Stir Lg 120V/US Plg	1
1199A26	88880012	RT Basic Stir Lg 230V/intl Plgs	1
1199A27	88880146	Plate cover (White color, Silicon 220cm)	1

# Water/Wastewater Analysis

(continued)



## Thomas® Thomas Laboratory and Engineering Notebooks

- Tamper-evident, section-sewn binding
- Acid-free, archival-safe paper
- Imprinted with 1/4" scientific grid or scientific ruling
- Available in 120 or 216 page formats



Thomas No.	Description	Each	Case
1236E02	Laboratory Notebook, Ruled, 120 Pg.	1	10
1236E04	Laboratory Notebook, Ruled, 216 Pg.	1	10
1236E06	Laboratory Notebook, Grid, 120 Pg.	1	10
1236E08	Laboratory Notebook, Grid, 216 Pg.	1	10
1236E10	Engineering Notebook, Grid, 120 Pg.	1	10
1236E12	Engineering Notebook, Grid, 216 Pg.	1	10

## Thermo Scientific™ Custody Seals

Custody seals provide a complete chain-of-custody and security with all sample containers. They cannot be removed without tamper evidence.



Thomas No.	Mfr. No.	Description	Case
1709B54	500	Custody Seal, 7" X 1"	100

## Thomas® Traceable® Digital-Bottle™ Refrigerator/Freezer Thermometer with Min/Max Readings

Accurately monitor temperatures in freezers, refrigerators, incubators, and environmental chambers with this temperature-buffered sensor. Bottle and solution insulate sensor from rapid temperature changes when refrigerator door is opened. Solution mimics exact temperature of samples.



Thomas No.	Description	Each
1221Z93	Digital Bottle Refrigerator/Freezer/Thermometer +/-1C	1
1221Z94	Digital Bottle Ultra Refrigerator/Freezer/Thermometer +/-0.4C	1
1221Z95	Digital Bottle Refrigerator/Freezer/Thermometer +/-1C Glass Bead	1
1221Z96	Digital Bottle Refrigerator/Freezer/Thermometer +/-0.4C Glass Bead	1

## Thomas® Traceable® Lollipop Shock/ Waterproof Thermometer

- Ideal for indoor/outdoor use
- Minimum/maximum memory
- Temperature range is -58° to 572°F and -50° to 300°C



Thomas No.	Description	Each
1235D23	Traceable® Waterproof Thermometer ±1°C Accuracy	1
1235D30	Traceable® Waterproof Thermometer ±0.4°C Accuracy	1

## Sper Scientific 12:1 IR Thermometers

- 12:1 distance to spot ratio (D:S)
- Measures up to 999°F (535°C) in 0.1° resolution
- Rugged and ergonomically designed
- Auto power off



Thomas No.	Mfr. No.	Description	Each
1230N01	800103	IR Thermometer, 12:1, 999°F	1

## Sper Scientific Min/Max Thermometers

### Min/Max Thermometer Magnet

Used in weather stations, cold storage rooms, construction, industry, or anywhere, indoor and out, requiring a record of minimum and maximum temperatures. Small floats are pushed to each temperature extreme by the two mercury columns and stay there until reset with the attached magnet. Dual scales of -50/50°C and -60/120°F. Weight: 4oz (108g). Dim: 11" x 2 1/2" x 1" (279 x 64 x 25mm).



Thomas No.	Mfr. No.	Description	Each
1226Z65	736680	Thermometer Min/Max Magnetic Reset	1

## Sper Scientific 8:1 IR Thermometers

- 8:1 distance to spot ratio (D:S)
- Rugged and ergonomically designed
- Auto power off



Thomas No.	Mfr. No.	Description	Each
1230M99	800101	IR Thermometer, 8:1, 605°F	1

## Sper Scientific Sound Level Pen

### Type 2 sound meter with one-button operation

The Sound Level Pen is the smallest, lightest, easiest to carry sound meter in the world. Despite its small size, the Sound Level Pen is a fully functioning type 21 sound meter perfect for testing OSHA requirements and most other sound meter applications. Autoranging with simple one-button operation.



Thomas No.	Mfr. No.	Description	Each
1225A63	840018	Sound Level Pen	1

## Thermo Scientific Capitol Vial Round Bottom Sample Tubes

Collect, store and transport samples with the Thermo Scientific™ Capitol Vial 16 x 75mm Round Bottom Sample Tubes.



Thomas No.	Mfr. No.	Description	Case
1185C09	S40125	16 I.D. x 75mm L; Polypropylene	1000



## Thomas® Thermometer/Clock

- Internal sensor
- Measures in both Fahrenheit and Celsius
- Audible alarm

Unique unit simultaneously displays time of day, temperature, and humidity. Individually serial-numbered Traceable® Certificates in the areas of time, temperature and humidity are provided from our ISO 17025 calibration laboratory accredited by A2LA. These certificates indicate traceability to standards provided by NIST (National Institute of Standards and Technology).



Thomas No.	Description	Each
9337T07	Thermometer / Clock	1

## Thomas® Traceable® Multi-Colored Timer

- Add color to your lab, 4-channel multi-colored timer, personalize your timer, show your distinct style with customized bold colors - a fresh look for the lab
- 3-bright colorful supplied frames permit personalization of timer
- Assorted colored frames supplied with each timer
- 4-separate timing channels countdown and alarm
- Automatic Bounceback™ Memory for repetitive timing
- Counts up during alarming indicating elapsed time since alarming
- Times up to 99 hours, 59 minutes, 59 seconds
- Settable to one second with one second resolution
- Accuracy is 0.01%
- 4 channels count up in stopwatch mode
- Time-of-day clock (12/24 hour)



Thomas No.	Description	Each
1229S19	Traceable Timer, Multi-Colored	1

## Microflex MidKnight™ Black Nitrile Gloves

**Offers the superior combination of durability and protection against day-to-day hazards in a comfortable nitrile glove**

- Powder-free
- Fully textured for enhanced tactile sensitivity and a consistent grip



Thomas No.	Mfr. No.	Description	Pack	Case
1229F24	MK-296-XS	Gloves, Black Nitrile, Extra Small	100	1000
1229F25	MK-296-S	Gloves, Black Nitrile, Small	100	1000
1229F26	MK-296-M	Gloves, Black Nitrile, Medium	100	1000
1229F27	MK-296-L	Gloves, Black Nitrile, Large	100	1000
1229F28	MK-296-XL	Gloves, Black Nitrile, Extra Large	100	1000
1229F29	MK-296-XXL	Gloves, Black Nitrile, 2X-Large	100	1000

## Microflex DuraFlock™ Nitrile Gloves

- 8 mil nitrile, 25% thicker than standard disposable gloves
- 100% nitrile, latex-free
- Increased durability and superior protection
- Comfortable to wear for extended periods and reduces hand fatigue
- Exclusive ultra-thin, moisture-absorbing flock-lining keeps hands dry
- Fully-textured for a firm, reliable grip



Thomas No.	Mfr. No.	Description	Pack	Case
1227N14	DFK-608-S	Gloves DuraFlock, Nitrile, Small	50	500
1227N15	DFK-608-M	Gloves DuraFlock, Nitrile, Medium	50	500
1227N16	DFK-608-L	Gloves DuraFlock, Nitrile, Large	50	500
1227N17	DFK-608-XL	Gloves DuraFlock, Nitrile, X-Large	50	500
1227N18	DFK-608-XXL	Gloves DuraFlock, Nitrile, 2X-Large	50	500

## Kimberly Clark Spring Green Nitrile Powder-Free Exam Gloves

- 4.7 mil, ambidextrous gloves with textured fingertips for enhanced grip
- Excellent wet and dry grip to reduce potential for slips
- Beaded cuffs for added strength and donning ease
- Free of natural rubber latex
- Superior quality – 0.65 AQL exceeds the ASTM 2.5 standard for critical defects (pinholes)



Thomas No.	Mfr. No.	Description	Box	Case
1190Y71	50705	Spring Green Nitrile Exam Gloves, XS	200	2000
1190Y72	50706	Spring Green Nitrile Exam Gloves, S	200	2000
1190Y73	50707	Spring Green Nitrile Exam Gloves, M	200	2000
1190Y74	50708	Spring Green Nitrile Exam Gloves, L	200	2000
1190Y75	50709	Spring Green Nitrile Exam Gloves, XL	180	1800

## Kimberly Clark Forest Green Nitrile Powder-Free Exam Gloves

- 3.5 mil, ambidextrous gloves with textured fingertips for enhanced grip
- Excellent wet and dry grip to reduce potential for slips
- Beaded cuffs for added strength and donning ease
- Free of natural rubber latex
- Superior quality – 1.5 AQL exceeds the ASTM 2.5 standard for critical defects (pinholes)



Thomas No.	Mfr. No.	Description	Box	Case
1190Y76	43443	Forest Green Nitrile Exam Gloves, XS	200	2000
1190Y77	43444	Forest Green Nitrile Exam Gloves, S	200	2000
1190Y78	43445	Forest Green Nitrile Exam Gloves, M	200	2000
1190Y79	43446	Forest Green Nitrile Exam Gloves, LG	200	2000
1190Y80	43447	Forest Green Nitrile Exam Gloves, XL	200	2000
1190Y81	43448	Forest Green Nitrile Exam Gloves, XXL	180	1800



**Can't find what you are looking for?**  
Visit **thomassci.com** or ask your Thomas Scientific Representative.

**We are here to help!**



## Air & Liquid Monitoring

### GE Healthcare

#### QM-A Quartz Fiber Filters

##### Grade QM-A circles

High-purity quartz (SiO<sub>2</sub>) microfiber filters are used for air sampling in acidic gases, stacks, flues and aerosols, particularly at high temperatures up to 500° C and in PM-10 testing. Because of the low level of alkaline earth metals, "artifact" products of sulfates and nitrates (from SO<sub>2</sub> and NO<sub>2</sub>) are virtually eliminated. QM-A, sequentially numbered according to EPA standards, is suitable for most applications.



Thomas No.	Mfr. No.	Description	Pack
1212F26	1851-025	QM-A Quartz Fiber Filters, circle, 25 mm	100
0898Q31	1851-037	QM-A Quartz Fiber Filters, circles, 37mm	100
0898Q30	1851-047	QM-A Quartz Fiber Filters, circles, 47mm	100
1212F28	1851-050	QM-A Quartz Fiber Filter, circle, 50 mm	100
1212F31	1851-090	QM-A Quartz Fiber Filters, circle, 90 mm	100
1212F36	1851-8866	QM-A Quartz Fiber Filters, circle, 8 x 10 in, numbered	100

### GE Healthcare

#### PTFE Membrane Circles TE Range

- Suitable for filtration of gases and liquids
- Resistant to most acids, alkalis, and solvents such as sodium hydroxide and hexane
- Laminated onto a nonwoven polypropylene support material
- Increased durability for aggressive testing environments
- Hydrophobic characteristics prevent passage of aqueous aerosols (e.g., during venting applications)



Thomas No.	Mfr. No.	Description	Pack
1212C06	10411205	PTFE Membrane Circle TE Range (TE 37), 1 µm pore size, 25 mm	50
1212C07	10411211	PTFE Membrane Circle TE Range (TE 37), 1 µm pore size, 47 mm	50
1212C08	10411213	PTFE Membrane Circle TE Range (TE 37), 1 µm pore size, 50 mm	50
1212C09	10411305	PTFE Membrane Circle TE Range (TE 36), 0.45 µm pore size, 25 mm	50
1212C10	10411311	PTFE Membrane Circle TE Range (TE 36), 0.45 µm pore size, 47 mm	50
1212C11	10411313	PTFE Membrane Circle TE Range (TE 36), 0.45 µm pore size, 50 mm	50
1212C12	10411405	PTFE Membrane Circle TE Range (TE 35), 0.2 µm pore size, 25 mm	50
1212C13	10411411	PTFE Membrane Circle TE Range (TE 35), 0.2 µm pore size, 47 mm	50
1212C14	10411413	PTFE Membrane Circle TE Range (TE 35), 0.2 µm pore size, 50 mm	50

### GE Healthcare

#### Cyclopore™ and Nuclepore™ Polycarbonate Membranes

##### Membrane filters for asbestos sampling and analysis

- Controlled pore size distribution
- Smooth flat membrane: particles are retained on surface and easily visible during optical analysis



Thomas No.	Mfr. No.	Description	Pack
4625C15	110606	Nuclepore Circles, Polycarbonate Membrane, 25 mm 0.2µm	100
4625D15	110607	Nuclepore Circles, Polycarbonate Membrane, 25 mm 0.4µm	100
1212H59	7060-2502	Cyclopore Circles, Polycarbonate Membrane, 0.2 µm pore size, 25 mm	100
1212H60	7060-2504	Cyclopore Circles, Polycarbonate Membrane, 0.4 µm pore size, 25 mm	100

More sizes available at [www.thomassci.com](http://www.thomassci.com), Keyword: 4625C15

### GE Healthcare

#### Whatman™ GF/A Borosilicate Glass Microfiber Filter Discs

##### 1.6 µm Retention

- Efficient retention of small size particles to 1.6 µm
- Extremely high flow rate; filtration takes place both vertically and laterally through the filters
- High loading capacity, which continues to filter efficiently for a greater extended period



Thomas No.	Mfr. No.	Description	Pack
0898Q94	1820-025	Filter Glass GF / A, Glass Circles, 25 mm	100
0898Q93	1820-037	Filter Glass GF / A, Glass Circles, 37 mm	100
4751F22	1820-047	Filter Disc, GF / A, Glass Circles, 47 mm	100
1212F05	1820-050	Filter Glass GF / A, Glass Circles, 50 mm	100
0898Q90	1820-090	Filter Glass GF / A, Glass Circles, 90 mm	100
0898Q87	1820-150	Filter Glass GF / A, Glass Circles, 150 mm	100

### Bioscience, Inc.

#### SAS Super 100 Air Sampler

##### For monitoring air for bacteria, fungi and viruses

- Meets FDA requirements for acceptable environmental monitoring as outlined in the Guideline on Sterile Drug Products produced by Aseptic Processing
- Test up to 1,000 liters of air per 10 minute cycle
- Nominal air flow rate: 100 liters/minute
- Use either general or specific types of agar



Thomas No.	Mfr. No.	Description	Each
8250A50	18198	SAS Super 100 Air Sampler	1

### Saint Gobain

#### Chemware® PVDF Bags with On/Off Valve

- Flexible
- Non contaminating
- On/off valve closure
- Use for gas or liquid sample containment
- Heat-sealed seams for leak-proof operation

Reusable bags made of 2 mil PVDF fluoropolymer film, Chemware® Gas Bags offer an economical alternative for analysis of non-corrosive gases. Durable, heat-sealed seams ensure leak-proof operation. Applications include sampling carbon monoxide, sulfur dioxide, hydrogen sulfide, radon and mercaptan. When used for liquid samples, bags should be supported with a tray. Not pressure rated. Custom sizes and configurations are available upon request.



Thomas No.	Mfr. No.	Description	Each
0686T82	D1075010	Saint-Gobain Chemware® 9 x 9 PVDF Bag for Gas/Liquid Sampling with On/Off Valve - 1 pc	1
1203G26	DD1075011	Saint-Gobain Chemware® 12 x 12 PVDF Bag for Gas/Liquid Sampling with On/Off Valve - 1 pc	1
0686T90	D1075018	Saint-Gobain Chemware® 9 x 9 PVDF Bag for Gas/Liquid Sampling with Septum Closure - 1 pc	1
0686T89	D1075017	Saint-Gobain Chemware® 12 x 12 PVDF Bag for Gas/Liquid Sampling with Septum Closure - 1 pc	1

## Chromatography

### National Scientific National SureStop\* Vials and Vial Kits

- Provides a consistent seal independent of user, or the amount of torque applied when closing vial
- Provides optimal septum compression across the opening of the vial
- Design allows the positioning of the closure to be consistently "flat" producing a more cylindrical vial profile, which improves autosampler recognition and compatibility
- As a result of AVCS, when used with our C5000 closure, SureStop becomes the best sealing vial/closure on the market
- Designed for use with nearly every autosampler on the market



Thomas No.	Mfr. No.	Description	Pack
<b>1203G08</b>	C5000-1W	SureStop Vial, 2mL, Clear Glass with Patch	100
<b>1203G09</b>	C5000-580	2mL, Clear Glass, w/Ivory PTFE/Red Rubber Septum	100
<b>1203G10</b>	C5000-580W	2mL, Clear Glass w/ID Patch, with Ivory PTFE/Red Rubber Septum	100
<b>1203G11</b>	C5000-2	2mL, Amber Glass w/ID Patch, with Ivory PTFE/Red Rubber Septum	100
<b>1203G12</b>	C5000-592	2mL, Clear Glass, w/Red PTFE/White Silicone Septum	100
<b>1203G13</b>	C5000-592W	2mL, Clear Glass w/ID Patch, with Red PTFE/White Silicone Septum	100
<b>1203G14</b>	C5000-586W	2mL, Clear Glass w/ID Patch, w/Red PTFE/White Silicone/Red PTFE Septum	100
<b>1203G15</b>	C5000-595W	2mL, Clear Glass w/ID Patch, w/Blue PTFE/White Silicone, Pre-slit Septum	100

### National Scientific Target DP 9mm Vial Closures

- Septa push through nearly eliminated due to improved interior geometry
- Increased sealing capability
- AVCS provides the freedom to select the best septum for your instrument and applications
- Cost efficient alternative to current choices for resolving push through (bonded septa)
- Optimized ergonomics, fine texturing and evenly spaced ribbing for superior handling even with poorly fitting gloves
- Rough edges have been eliminated making it easier and more comfortable to use while improving autosampler operation



Thomas No.	Mfr. No.	Description	Pack
<b>1205W79</b>	C5000-44B	Blue cap with soft, high purity T/S septum	100
<b>1205W81</b>	C5000-45B	Blue cap with soft, high purity T/S septum, pre-slit	100
<b>1205W76</b>	C5000-51B	Blue cap with PTFE/red rubber septum	100
<b>1205W77</b>	C5000-53B	Blue cap with PTFE/silicone/PTFE septum	100
<b>1205W78</b>	C5000-54B	Blue cap with PTFE/silicone septum	100
<b>1205W80</b>	C5000-55B	Blue cap with PTFE/silicone septum, pre-slit	100
<b>1205W82</b>	C5000-50	Clear cap with integral polypropylene membrane	100
<b>1205W83</b>	C5000-50B	Blue cap with integral polypropylene membrane	100
<b>1205W84</b>	C5000-99B	Blue closed top cap with PTFE/red rubber septum	100

### National Scientific Target DP\* 9 mm Convenience Kits and Assembled Vial Kits

#### Features of Target DP 9mm Vial Closures (included in kits):

- Septa push through nearly eliminated due to improved interior geometry without the need for bonding
- Increased sealing capability
- AVCS provides the freedom to select the best septum for your instrument and applications
- Cost efficient alternative to current choices for resolving push through (bonded septa)
- Optimized ergonomics, fine texturing and evenly spaced ribbing for superior handling even with poorly fitting gloves
- Rough edges have been eliminated making it easier and more comfortable to use while improving autosampler operation



Thomas No.	Mfr. No.	Description	Pack
<b>1203G16</b>	C5000-80	Convenience Kit - 2mL Clear Glass, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
<b>1203G17</b>	C5000-80W	Convenience Kit - 2mL Clear Glass with patch, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
<b>1203G18</b>	C5000-86W	Convenience Kit - 2mL Clear Glass with patch, 9mm PP Blue Cap, Red PTFE/ White Silicone/Red PTFE	100
<b>1203G19</b>	C5000-92	Convenience Kit - 2mL Clear Glass, 9mm PP Blue Cap, Red PTFE/ White Silicone	100
<b>1203G20</b>	C5000-92W	Convenience Kit - 2mL Clear Glass with Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone	100
<b>1203G21</b>	C5000-95W	Convenience Kit - 2mL Clear Glass with Patch, 9mm PP Blue Cap, Blue PTFE/ White Silicone, PreSlit	100
<b>1203G22</b>	C5000-180	PreAssembled Kit - 2mL Clear Glass, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
<b>1203G23</b>	C5000-180W	PreAssembled Kit - 2mL Clear Glass with Patch, 9mm PP Blue Cap, Ivory PTFE/ Red Rubber	100
<b>1203G24</b>	C5000-186W	PreAssembled Kit - 2mL Clear Glass with Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone/Red PTFE	100
<b>1203G25</b>	C5000-192W	PreAssembled Kit - 2mL Clear Glass with Patch, 9mm PP Blue Cap, Red PTFE/ White Silicone	100

### Hamilton Purge and Trap Syringes

- Designed for the analysis of drinking water samples according to EPA purge and trap concentration techniques



Easy-to-remove syringe plunger for loading water samples into syringe barrel. Internal standard or surrogate sample can be added directly through twist valve.

Thomas No.	Mfr. No.	Description	Each
<b>8928C95</b>	81570	Syringe Purge and Trap, 5mL	1
<b>8928C98</b>	82570	Syringe Purge and Trap, 25mL	1





## Chromatography *(continued)*

### Hamilton HDHT Headspace Syringes with Glue-Free Needles



Hamilton introduces a new headspace syringe featuring a unique Glue-Free (GF) needle attachment in combination with the well-known High Dynamic (HD) plunger designed specifically for PAL COMBI-xt Headspace Autosamplers.

Thomas No.	Mfr. No.	Description	Each
<b>1183J18</b>	209681	1mL, Model 1001, 23 gauge, point style 5	1
<b>1183J19</b>	209682	1mL, Model 1001, 26 gauge, point style 5	1
<b>1183J20</b>	209683	2.5mL, Model 1002, 23 gauge, point style 5	1
<b>1183J21</b>	209684	2.5mL, Model 1002, 26 gauge, point style 5	1
<b>1183J22</b>	209685	2.5mL, Model 1005, 23 gauge, point style 5	1

### Hamilton MicroLab 600 Dispensers and Diluters



There are three different dispenser models available all designed to dispense volumes from 100 nL to 50 mL. The Single Syringe Dispenser is ideal for dedicated dispensing applications requiring a single syringe drive. The Dual Syringe Dispenser has two syringe drives for applications such as Animal Dosing that require the use of more than one liquid at the same time. The Continuous Dispenser is designed for time critical applications requiring repetitive dispensing.

The basic controller comes standard with a Quick Start run screen that provides basic diluting and dispensing functionality. The advanced controller delivers additional functions through intuitive wizards and the custom method editor. Wizard settings can be saved as favorites or custom methods on the hardware key. The Basic Controller can be upgraded to the Advanced Controller if it is not selected initially.

Thomas No.	Mfr. No.	Description	Each
<b>1220B14</b>	ML610-DIS	MicroLab 600 Single Syringe Dispenser with Basic Controller	1
<b>1221W13</b>	ML620-DIS	MicroLab 600 Single Syringe Dispenser with Advanced Controller	1
<b>1221W11</b>	ML615-DIS	MicroLab 600 Dual Syringe Dispenser with Basic Controller	1
<b>1221W15</b>	ML625-DIS	MicroLab 600 Dual Syringe Dispenser with Advanced Controller	1
<b>1221W12</b>	ML615-CNT	MicroLab 600 Dual Syringe Continuous Dispenser with Basic Controller	1
<b>1221W16</b>	ML625-CNT	MicroLab 600 Dual Syringe Continuous Dispenser with Advanced Controller	1
<b>1221W10</b>	ML615-DIL	MicroLab 600 Dual Syringe Diluter with Basic Controller	1
<b>1221W14</b>	ML625-DIL	MicroLab 600 Dual Syringe Diluter with Advanced Controller	1

For more product information and additional product listings, please visit [thomassci.com](http://thomassci.com), Keyword: 1221W10.

### Hamilton PRP-X100 Anion Exchange HPLC Columns



- Easily separate the eight common anions (fluoride through sulfate)
- Good separation of fluoride from the water dip
- Use with organic solvent from 0 to 100 % for elution
- of hydrophobic anions or column cleaning
- pH stable from 1 to 13
- Use conductivity or UV detection
- Three particle sizes: 5, 10 and 12-20µm

Thomas No.	Mfr. No.	Description	Each	Pack
<b>0470U19</b>	79446	Cartridge Replacement PRP-X100	—	5
<b>0470U25</b>	79448	Column Starter Kit PRP-X100	1	—
<b>0470U68</b>	79434	Column PRP-X100, 10µm 150 x 4.1mm	1	—
<b>0470U69</b>	79433	Column PRP-X100, 10µm 250 x 4.1mm	1	—
<b>1216L97</b>	79181	Column PRP-X100, 4.6 x 250mm Peek	1	—
<b>1216L98</b>	79174	Column PRP-X100, 5µm, 150 x 4.6mm	1	—
<b>1216L99</b>	79354	Column PRP-X100, 150 x 4.6mm Peek	1	—
<b>1216M00</b>	79455	Column PRP-X100, 10µm 250 x 4.6mm	1	—
<b>1216M01</b>	79190	Column PRP-X100, 5µm 250 x 2.1mm	1	—
<b>1216M02</b>	79538	Column PRP-X100, 5µm, 100 x 4.1mm	1	—
<b>1216M03</b>	79665	Column PRP-X100, 7µm, 150 x 4.6mm	1	—
<b>1216M04</b>	79383	Starter Kit, Peek GD Column, X100	1	—
<b>1207L01</b>	79812	Column PRP-X100, 5µm 4.1 x 150mm	1	—

New and Now Available

## HDHT Headspace Syringes

**New HDHT-Type Syringe Design**  
PATENT PENDING

Glue-Free Needle Attachment

**Glue-Free needle attachment**

glue-free  
syringe up to  
200°C

**HD-Type Plunger Design**  
PATENTED

PTFE Plunger Tip      New Compression Spring

- Unique Glue-Free (GF) needle attachment in combination with the well-known High Dynamic (HD) plunger designed specifically for PAL COMBI-xt Headspace Auto samplers
- Glue-Free needle attachment is chemically inert, eliminating detached needles due to contact with organic, and chlorinated solvents

- Glue-Free needle attachment minimizes ghost peaks
- Temperature stability up to 200°C means a wider range of sample components can be analyzed
- Patented spring-in-plunger design creates a dynamic seal between the plunger tip and the inside of the glass barrel for leak-free operation

For additional information visit [thomassci.com](http://thomassci.com) Keyword: 1183J18



## Chromatography (continued)

J.G. Finneran

### R.A.M.™ Large Opening Vials

- 40% larger opening
- Type I Borosilicate glass
- Clear or amber

These vials function similarly to the Kimble ROBO Vial™, National's Target DP, Sun 1 and Wheaton ABC Vials. Specifically designed to work in robotic arm autosamplers like Agilent (HP). Unique StepVial design precisely centers a limited volume insert in the vial neck. Available with marking spots and graduated with marking area.



Thomas No.	Mfr. No.	Description	Pack	Case
<b>2695A01</b>	32009-1232	2.0mL Clear Vial	100	1000
<b>2695A07</b>	32009-1232A	2.0mL Amber Vial	100	1000
<b>2695A13</b>	32009M-1232	2.0mL Clear Vial w/White Marking Spot	100	1000
<b>2695A19</b>	32009M-1232A	2.0mL Amber Vial w/White Marking Spot	100	1000
<b>2695A25</b>	32009E-1232	2.0mL Clear Vial w/White* Graduated Marking Spot	100	1000
<b>2695A55</b>	32009E-1232A	2.0mL Amber Vial w/White* Graduated Marking Spot	100	1000
<b>2695C07</b>	5395F-09RB	9mm R.A.M.TM Cap, Royal Blue, PTFE/Silicone	100	1000

\*Graduated marking spots also available in blue, green, rust and yellow. Contact your Thomas Scientific Representative for information.

## EMD Millipore SpillSolv® Chemical Spill Kits

### Caustic Spill Kit

Kit contains 6 x 0.9 kg Caustic Neutralizer; 1 pair splash goggles with ventilation; 1 pair Nitrile gloves; 6 heavy-duty disposal bags that measure 14" x 20" x 4 mil; 4 disposable plastic scoops and scrapers; 1 large sponge for residue cleanups and a treatment guide.

### Multi-Purpose Spill Kit

- For acid, caustic and solvent spills

Kit contains 2 x 1 kg Acid Neutralizer; 2 x 0.9 kg Caustic Neutralizer; 2 x 0.5 kg Volatile Adsorbent Powder; 1 pair splash goggles with ventilation; 1 pair Nitrile gloves; 6 heavy-duty disposal bags that measure 14" x 20" x 4 mil; 4 disposable plastic scoops and scrapers; a large sponge for residue cleanups and a treatment guide.



Thomas No.	Mfr. No.	Description	Each
<b>8237A01</b>	SX1300-1	SpillSolv® Spill Kit, Multi-purpose	1

## Alconox Liquinox® Biodegradable Cleaning Compound

- Mild to skin and phosphate-free

Liquinox® (pH 8.5) cleans glass, metal, rubber, plastic and hard-surface materials. Liquid detergent concentrate is readily soluble in hard or soft water, and has biodegradable base. Detergent features a special formulation of anionic and non-ionic detergents and wetting agents. Detergent has high cleaning power, yet is mild to skin and contains no phosphates.



Thomas No.	Mfr. No.	Description	Bottle	Case
<b>2902N10</b>	1232	Liquinox®, 1 Qt. Bottle	1	12
<b>2902N20</b>	1201	Liquinox®, 1 Gal. Bottle	1	4

## Cleanup

NPS

### Multi-Purpose Lab Soakers

Spilfyter® Soakers provide absorption protection against spills and cushioning to minimize breakage. Soakers are made with multiple layers of 100% recycled tissue and a plastic poly backing for diaper-like characteristics. Heavy duty models feature durable fabric top.



Thomas No.	Mfr. No.	Description	Each
<b>1233K17</b>	37031-060	Lab Soaker, Light Duty Roll, 20" X 400"	1
<b>1233K18</b>	37031-080	Lab Soaker, Light Duty Pad, 16" X 20"	1
<b>1233K19</b>	47031-000	Lab Soaker, Heavy Duty Roll w / Fabric Top, 20" X 200"	1
<b>1233K20</b>	47031-018	Lab Soaker, Heavy Duty Pad w / Fabric Top, 16" X 20"	1

## Alconox Alconox® Detergent Biodegradable Cleaning Compound

- For general laboratory use
- Suitable in ultrasonic cleaners
- Mild, odorless, non-toxic powdered wetting agent and detergent for cleaning glassware, porcelain, metal, plastic or rubber

Detergent removes grease, blood, tissue, etc. and is especially effective for penetrating irregular and inaccessible surfaces. Usual dilution is 1 tablespoon to 1 gallon water gives pH 9.5 solution.



Thomas No.	Mfr. No.	Description	Box	Case
<b>2902G05</b>	1104	Alconox®, 4 Lb. Bx.	1	9



## Cleanup *(continued)*

### Alconox Alcotabs® Biodegradable Cleaning Compound

- Tablet for siphon type pipette washers at pH 6.5
- Equivalent in composition and cleaning action to 2902G05 (See page 31)



Thomas No.	Mfr. No.	Description	Box	Case
2902L10	1500	Alcotabs®	100	600

### Thomas® Clean-Wipes

- 70% isopropyl or 100% pure water treated wipes
- High-quality, ultra-clean grade
- Strong, soft and lint-free



Thomas No.	Description	Each
2903J78	Clean-Wipes, 70% Isopropyl Alcohol, Can 100	1
2903J75	Clean-Wipes, Deionized Water, Can 100	1
2903J81	Clean Wipes, Dry, Can 100	1

### Kimberly Clark Scott® C Fold Paper Towels

- Color: White
- Size: 0.125" x 13.15"
- Meets EPA Standards



Thomas No.	Mfr. No.	Description	Case
1234Z72	01510	Scott® C Fold Paper Towels	2400

### W.A. Hammond Drierite Co. Drierite® Drying Agent (Anhydrous Calcium Sulfate)

Indicating Grade, 8 Mesh



Thomas No.	Mfr. No.	Description	Each	Case
C289E01	DRI 23001	Drierite® Drying Agent, Indicating Grade, 8 Mesh, 1 lb	1	12
C289E08	DRI 23005	Drierite® Drying Agent, Indicating Grade, 8 Mesh, 5 lb	1	4

### Brush Tech Glassware Brushes

Can last up to 10 times longer than most other brushes and up to 20 times longer than most other sponges under normal use.

- Sponge-type brush area
- Comfortable handles



Thomas No.	Mfr. No.	Description	Each	Case
1929M20	B55C	Brush, Flexible, 16" L X 7/8" Dia.	1	12
1929M23	B60C	Brush, Polypropylene Handle, Short	1	12
1929M26	B130C	Brush, Polypropylene Handle, Long	1	12

### ITW Dymon SCRUBS® Hand Sanitizer Wipes

- Kills 99.9% of Germs
- Kills MRSA
- Dissolves Bio-film
- Prevents cross-contamination
- Replaces alcohol gels, which do not remove contaminants
- Helps reduce the risk of infection and disease
- Can be used where soap and water are not available



Thomas No.	Mfr. No.	Description	Case
1222J34	DYM90901	SCRUBS® Hand Sanitizer Wipes, Box 100	1
1222J36	DYM90956	SCRUBS® Hand Sanitizer Wipes, 50 Count	6
1222J37	DYM90978	SCRUBS® Hand Sanitizer Wipes, 200 Count	6
1222J38	DYM90985	SCRUBS® Hand Sanitizer Wipes, 85 Count	6

### Globe Scientific Drying and Draining Rack

Stain-Resistant Durable Rack

- 72 interchangeable pegs - 11 small pegs
- Drip channel with draining hose
- Mounting kit and template for hanging
- Hooks for joining together additional racks
- Rack dimensions: 17.7"(W) x 24.8"(H) x 4.3"(D) (450mm x 630mm x 110mm)
- Peg Dimensions: 3.7" long x 0.6" diameter (95mm x 15mm)



Thomas No.	Mfr. No.	Description	Each	Pack
1224M36	600213	Drying Rack, 72-place	1	—
1224M37	601213	Pegs, Small, for Drying/Draining Rack	—	11

### Bel-Art Products Scienceware® Lab-Aire® II Drying Racks

Dry it - No Matter How Much Space You Have

- Single-sided model can fit against a wall or wall-mount to conserve bench space
- Double-sided benchtop model provides twice the capacity with a slightly larger footprint
- Wall-mount model has mounting points sized to fit standard pegboards
- 3 peg lengths to accommodate a wide variety of glassware; pegs can be easily moved and arranged as needed



Thomas No.	Mfr. No.	Description	Each
1229E52	F18933-0011	Lab-Aire® II Drying Rack, Benchtop / Wall Mount, 1 Tier, 19 Pegs	1
1229E57	F18933-0021	Lab-Aire® II Drying Rack, Double Sided, 1 Tier, 38 Pegs	1
1229E53	F18933-0012	Lab-Aire® II Drying Rack, 2 Tier, 38 Pegs 1 Side	1
1229E55	F18933-0014	Lab-Aire® II Drying Rack, Wall Mount, 2 Tier, 38 Pegs	1
1229E58	F18933-0022	Lab-Aire® II Drying Rack, Double Sided, 2 Tier, 76 Pegs	1





## Cleanup (continued)

**United Scientific Supplies**  
**Unitary Wash Bottles**

These bottles are made of translucent and Low Density Polyethylene. The distinguishing feature that these bottles contain is the built-in delivery tube making it a one-piece wash bottle. These bottles are graduated on the outer surface to reflect an approximate volume of solution filled or dispensed.



Thomas No.	Mfr. No.	Description	Pack
1207M51	36607	125 mL Unitary Wash Bottle	12
1207M52	36605	250 mL Unitary Wash Bottle	12
1207M53	36606	500 mL Unitary Wash Bottle	12

**Bel-Art Products**  
**Scienceware®**  
**Color-Coded Narrow**  
**Mouth Wash Bottles**
**Color-Coded, Polyethylene Bottles**

- 2 sizes available: 250, 500 mL
- 5 colors (See [thomassci.com](http://thomassci.com) for additional colors)

Ideal for quick, at-a-glance identification of contents. These low-density, polyethylene wash bottles feature color-coded polypropylene cap and nozzle assemblies.



Thomas No.	Mfr. No.	Description	Pack	Case
9765G58	F116170250	Wash Bottle, 250 mL, Green	6	36
9765G64	F116180008	Wash Bottle, 250 mL, Natural	12	72
9765G90	F116170500	Wash Bottle, 500 mL, Green	6	24
9765G96	F116180016	Wash Bottle, 500 mL, Natural	12	36

**Kimberly Clark**  
**Kimwipes® EX-L**  
**Delicate Task Wipers**

- Soft and gentle on surfaces
- Absorbent
- Low-linting



Single-ply wipers are soft, non-abrasive and safe for most delicate surfaces. Wipes clean, providing extra low-lint and extractable performance. Easily wipes liquid and dust. Two sizes are packaged in Pop-Up® dispenser boxes.

Thomas No.	Mfr. No.	Description	Box	Case
2904F24	34155	Kimwipes Delicate Task Wipers, White, 4.4" x 8.4"	280	16800
1234Z62	34256	Kimwipes Delicate Task Wipers, White, 14.7" x 16.6"	140	2100



**Safety Wash Bottles** can be found at **thomassci.com**,  
Keywords: Safety Wash Bottle

## Equipment & Instruments

**IKA Works**
**RT Multi-Position Magnetic Stirrers with Heating**

The RT series of multi-position digital magnetic hotplate stirrers are ideal for synchronous heating and stirring applications. The wear-free magnetic coil technology provides consistent and noiseless stirring on all positions. The RT series of magnetic stirrers are available with 5, 10 and 15 stirring positions and can be used for volumes up to 6 l (H2O).



Thomas No.	Mfr. No.	Description	Each
1186V37	3690601	RT 5 Magnetic Stirrer, 115V	1
1186V38	3691101	RT 10 Magnetic Stirrer, 115V	
1186V39	3692601	RT 15 Magnetic Stirrer, 115V	

**Benchmark**
**MyFuge™ 12**  
**Mini Centrifuge**

- COMBI-Rotor™, for tubes and strips
- Twice the capacity of traditional mini centrifuges
- Near silent operation
- Starts and stops with opening/closing of the lid



Thomas No.	Mfr. No.	Description	Each
1220P38	C1012	MyFuge™12 Mini Centrifuge 100-240V, US	1

**Thermo Scientific™ Orion™**  
**AQ3700 AQUAfast™**  
**Colorimeter**

The Thermo Scientific Orion AQ3700 AQUAfast colorimeter offers a broad range of pre-programmed methods for all of your testing needs. The software prompts you through the test steps, ensuring conformity and consistency in gathering your important test results.



Thomas No.	Mfr. No.	Description	Each
1221V21	AQ3700	AQUAfast Colorimeter Kit	1



## Equipment & Instruments *(continued)*

### Thermo Scientific™ Orion™ AQ3070 AQUAfast™ Chlorine Meter

- Uses EPA-approved AC4P71 Free Chlorine and AC4P72 Total Chlorine Methods for Drinking Water and Wastewater reporting
- Easy-to-use meter with large display
- Accurate, reproducible results
- Meter also contains calibration curves for AC2099 Chlorine Dioxide, AC3001 pH and AC2098 Cyanuric Acid (reagents sold separately)
- IP67 Waterproof certified by TUV test
- Includes 100 free & total chlorine powder packs for measurements from 0.02 - 4.0 mg/L



Thomas No.	Mfr. No.	Description	Each
1224B23	AQ3070	Orion AQ3070 Free & Total Chlorine Meter Kit	1

### LaMotte 1200 Series Single Test Colorimeters

- Water-resistant design
- Auto-zero calibration
- Direct read-out in parts per million
- Meets all US EPA requirements for NPDWR and NPDES chlorine monitoring programs

Includes carrying case, reagents for 100 tests and six sample vials.



Thomas No.	Mfr. No.	Description	Each
3075B60	3670-01	DC1200-CL Chlorine Colorimeter Kit, Tablet, Tabs	1
3075B65	3670-01-LI	DC1200-CL-Li Chlorine Colorimeter Kit, Liquid	1

### LaMotte SMART 3 Colorimeter

- 80+ pre-programmed tests
- Automatic wavelength selection
- Menu-driven operation
- Accepts COD vials and cuvettes
- Waterproof to IP67
- Seven languages



Thomas No.	Mfr. No.	Description	Each
1222K63	1910	SMART 3 Colorimeter	1

### Lovibond® MD600™ Colorimeter

The MD600™ Multi-Parameter Colorimeter is a versatile instrument that tests for a wide range of water quality parameters and is perfect for use in either the field or laboratory. Using Lovibond's "Open Reagent System" (which uses Powder Pack™, stable tablets and liquid reagents) the MC500 features an industry-leading 6 LED photo detector array and supports 70 pre-programmed methods (from Alkalinity through Zinc) and 20 user defined methods.



Thomas No.	Mfr. No.	Description	Each
1226Y24	214020	MD600 Colorimeter	1

### Lovibond® MD100 Colorimeter for COD Analysis

The MD100 is a single parameter colorimeter for water quality analysis. These rugged, waterproof, instruments are lightweight and ideal for laboratory and field testing.

The instruments feature a large, backlit display, as well as a real time clock, data logging capabilities, and the ability to export data using the IRIIM.

#### Ranges of Analysis:

- 0 – 150 mg/l
- 0 – 1,500 mg/l
- 0 – 15,000 mg/l



Thomas No.	Mfr. No.	Description	Each
1210W61	276120	MD100 Colorimeter, COD	1
1210W62	276010	MD100 Colorimeter, Chlorine	1
1210W66	276025	MD100 Colorimeter, Chlorine with Powder Pack Reagents	1
1210W67	278030	MD100 Colorimeter, Chlorine and pH	1

### Grant Instruments DEN-1 and DEN-1B Densitometers

- Can be used with 18mm and 16mm tubes
- Measurement range: 0.3 to 5.0 McFarland units (DEN-1), 0.00 to 6.00 McFarland units (DEN-1B)
- Measurement time: 1 second
- Precision:  $\pm 3\%$
- Standard deviation at 3.00 McF units:  $\pm 0.1$  McF
- User calibration option
- 2-Year manufacturer warranty

DEN-1B has an independent battery power supply (3 x AAA batteries)



Thomas No.	Mfr. No.	Description	Each
1228H81	DEN-1 USA	Densitometer 120V and 220V 50./60Hz	1
1203Q08	DEN-1B USA	Battery powered densitometer, 110V, Grant Instruments	1



For additional **Equipment and Instruments**, see pages 14-25

## Equipment &amp; Instruments (continued)

**Boekel**  
**Small & Large Desiccators**

- Storing reagents, IR cells or soil samples
- Drying biological specimens
- Cooling crucibles
- Storage sludge samples



Thomas No.	Mfr. No.	Description	Each
<b>3744F10</b>	1340	Small Desiccator, two cement board shelves & desiccator tray	1
<b>3744F20</b>	1342	Small Desiccator, two stainless steel shelves & desiccator tray	1
<b>3744H10</b>	1344	Large Desiccator, two stainless steel shelves & desiccator tray	1

**Bel-Art Products**  
**Scienceware® Standard,  
Automatic and Gas Purge  
Grande Desiccators**

- Shelves are removable to allow use as a single, spacious chamber for specific storage needs
- Door hinges located on right side
- Exterior Dimensions: (26 x 24 x 26")
- Interior Dimensions: (18.5 x 20 x 17")
- Interior Capacity: 3.6 cu. ft. (holds 252 cans)



Thomas No.	Mfr. No.	Description	Each
<b>1210A05</b>	F430001010	Grande Desiccator, Standard	1

**Bibby Scientific - Techne**  
**Digital Dri-Block® Heaters**

- Small, light, compact footprint - flat top surface allows units to be stacked in storage
- Digital models enable highly accurate temperature precision
- Temperature range from ambient + 5°C to 200°C depending on the model chosen



Other options available on [thomassci.com](http://thomassci.com)

Thomas No.	Mfr. No.	Description	Each
<b>1200Z71</b>	DB100/2/115	Dri-Block Heater, Ambient + 5°C to 100°C, 2 Blocks, 115V	1
<b>1200Z75</b>	DB200/2/115	Dri-Block Heater, Ambient + 5°C to 200°C, 2 Blocks, 115V	1
<b>1200Z77</b>	DB200/3/115	Dri-Block Heater, Ambient + 5°C to 200°C, 3 Blocks, 115V	1
<b>1200Z79</b>	DB100/3/115	Dri-Block Heater, Ambient + 5°C to 100°C, 3 Blocks, 115V	1

**Labconco**  
**Protector® Premier®  
Laboratory Hoods**

- By-pass airflow design
- Eco-Foil™ Air Foil with aerodynamic Clean-Sweep™ airflow openings
- Cord-Keeper™ Slots on left and right side of air foil
- Glacier white powder-coated steel exterior
- One-piece molded fiberglass liner and pre-set baffle(s) with flame spread less than 25 per ASTM E-84
- Tempered safety glass vertical-rising sash with powder-coated sash handle
- 37.5" (95.3 cm) high sightline from the work surface to header panel
- Removable front and side panels, and front service access panels for access to plumbing and electrical wiring
- Molded fiberglass 12.81" ID exhaust connection(s)



Thomas No.	Mfr. No.	Description	Each
<b>1208W55</b>	100400000	Protector Premier, 4', No Services, No Blower, 115V, 60Hz	1
<b>1208W56</b>	100400002	Protector Premier, 4', Two Services and Duplex, No Blower, 115V, 60Hz	1
<b>1208W73</b>	100600000	Protector Premier, 6', No Services, No Blower, 115V, 60Hz	1
<b>1208W74</b>	100600002	Protector Premier, 6', Two Services and Duplex, No Blower, 115V, 60Hz	1

**Thermo Scientific™ - Barnstead**  
**MaxQ 2000 Digital  
Platform Shaker**
**Microprocessor control  
closely controls time and speed**

- Brushless motor requires no maintenance
- Audible/visual speed alarm prevents shaker from walking
- Automatically restarts after power interruption
- Lifetime warranty on drive mechanism

Ideal for operation on a bench top, in a standard incubator or in an environmental chamber.



Thomas No.	Mfr. No.	Description	Each
<b>8290F91</b>	SHKE2000	Digital Platform Shaker, Model SHKE 2000, 0.75 Dia., 120V	1





## Equipment & Instruments (continued)

### Thermo Scientific™- Barnstead MaxQ™ Mini 4450 Benchtop Shaker

**Combines benchtop incubated temperatures with an orbital shaker**

- Heavy-duty triple eccentric drive for continuous and uniform agitation even at high speeds
- Temperature range is ambient +5° to 80°C with ±0.5°C uniformity at 37°C
- Compact 11" x 13" footprint requires minimal bench space



Thomas No.	Mfr. No.	Description	Each
8291J74	SHKE4450	MaxQ™ Mini 4000 Dig / Incshak 120V	1

### Thermo Scientific™- Barnstead MaxQ™ 4000 and Refrigerated Environmental Shakers

**Model 4000 Benchtop Shakers**

- Analog or digital units available
- Audible/visual alarms
- Spacious chamber holds six 2L flasks
- Automatically restarts after power interruption
- Accurate regulation of shaker speed from 15-500 rpm (digital); 40-400 rpm (analog)
- LEXAN hood allows unobstructed view of contents



**Refrigerated Environmental Shakers**

- Benchtop or floor models
- Chose between analog and digital operating systems



Thomas No.	Mfr. No.	Description	Each
8291J51	SHKE4000	Digital Benchtop Shaker, Ambient 5 to 60°C, 120V	1
8291J84	SHKE4000-7	Digital Refrigerated Benchtop Shaker, 120V	1

### Hettich Instruments HettCube Incubators (115V)

**Sustainable, ergonomic, high quality**

- Eco-friendly with low power consumption & low global warming potential (GWP)
- Available in (3) sizes: 5.2 cu ft, 10.9 cu ft and 18.3 cu ft
- Easily reverse the door-swing
- One degree (+/- 1°) from ambient temp. (non-refrigerated)
- Run-Silent™ Operation (softer than normal conversation)
- Intelligent temperature control with cross directional airflow for maximum heat distribution (no interior fan)
- Self-Close 90°: Door will automatically close at any angle under 90°
- Two (2) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1203R78	64000-01	Hettcube 400 10.95 cubic ft	1
1203R79	64005-01	Hettcube 400R 10.95 cubic ft	1
1203R80	66000-01	Hettcube 600 18.36 cubic ft	1
1203R81	66005-01	Hettcube 600R 18.36 cubic ft	1

Additional Hettich packages available.  
Please ask your Thomas Scientific representative.

### Hettich Instruments ROTINA 380 Centrifuge (115V)

**High capacity, general-purpose, benchtop centrifuge with a small footprint**

- Robust & steady, temperature control system with pre-cool function from -20 to +40 °C (optional)
- Max capacity: Up to (4) 290 mL
- Max RPM/RCF: 15,000/24,400
- Round bottom, conical, bottles, plates and more
- Run-Silent operation (as quiet as normal conversation)
- Easy-Lift™ / Safety-Lock™ Lid
- Five (5) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1211P75	380CELLCULTURE4	36/16 Places, 15/50 mL, 90° Swing-out, 115V	1
1211Q37	380BOTTLE	4 Places, 250 mL, 90° Swing-out, 5 Year Warranty, 115V	1

### Hettich Instruments ROTOFIX 32A Centrifuge (115V)

**Rugged general-purpose benchtop centrifuge**

- All steel construction
- Max capacity: Up to (4) 100 mL or (32) 15 mL
- Max RPM/RCF: 6,000/4,226
- Easy-Lift™, Safety-Lock™ Lid
- Run-Silent operation (as quiet as normal conversation)
- Five (5) Year Manufacturer Warranty



Thomas No.	Mfr. No.	Description	Each
1211P71	32ACELLCULTURE4	16/4 Places, 15/50 mL, 90° Swing-out, 115V	1
1211P72	32ACELLCULTURE6	6 Places, 15/50 mL, 90° Swing-out, 115V	1

INDUSTRIAL / ENVIRONMENTAL

## ROTOFIX 46 CENTRIFUGE

**Hettich**  
LAB TECHNOLOGY

- Temperature control +10 °C to +90 °C (opt.)
- Universal swing-out rotor for tubes & bottles ranging from 3 mL to 290 mL
- All-metal containment
- Specialty applications
  - Water in oil
  - Suspension of particulates
  - Dairy
  - Micro-fluidics
- Five (5) year warranty



ASTM	CHROME BATH	SCHLENK	BABCOCK

→ Learn more at: [thomasci.com](http://thomasci.com), Search: Hettich

## Testing

### Oakton

#### EcoTestr™ pH 2, TDS, EC and Salt

- Ergonomically designed LC display means measurements can be seen at a glance
- Economical and easy to use
- Waterproof and dustproof housing designed for use in dirty and damp field conditions



Thomas No.	Mfr. No.	Description	Each
1213U22	WD-35462-10	EcoTestr TDS Low	1
1213U23	WD-35462-15	EcoTestr TDS High	1
1213U24	WD-35462-30	EcoTestr EC Low	1
1213U25	WD-35462-35	EcoTestr EC High	1
1213U26	WD-35462-50	EcoTestr Salt	1
1228Y00	WD-35423-10	EcoTestr pH 2	1

### Bibby Scientific - Jenway 62 Series Fluorometers

- High quality optics: pulsed xenon lamp and Total Energy Transfer (TET)
- Intelligent Filter Modules ensure correct filters are fitted for selected method
- Intuitive programming allows fast program creation
- Raw fluorescence or concentration values options
- Standard curve and kinetic functions
- Heated sample holder and sipper pump accessories
- Compatible with DataWay PC software



Thomas No.	Mfr. No.	Description	Each
1207T80	627001	6270 Fluorimeter, 90-230V, 190-1100nm	1
1207T81	628001	6280 Fluorimeter, 90-230V, 190-650nm	1
1207T82	628501	6285 Fluorimeter, 90-230V, 190-850nm	1

### Thermo Scientific™ Orion™ High Performance Ammonia Electrode

Designed to meet the demanding needs of drinking water and wastewater applications

- Accurate results down to 0.01 ppm
- Linear electrode response down to low detection limits
- Response time of 1 minute in sample concentrations of 1 ppm and higher
- New wastewater applications developed using known addition and direct measurement techniques



Thomas No.	Mfr. No.	Description	Each	Pack
1229G33	951214	Loose Membranes	—	20
1229G34	951215	Pre-Assembled Outer Body and Membrane Cap	—	3
1229F31	9512HPBNWP	High Performance Ammonia Electrode	1	—

### Thermo Scientific™ Orion™ ROSS™ Ultra™ Premium pH Electrodes

The Orion ROSS pH electrode, which is recognized as the best pH electrode in the world for difficult samples, is now even better.

The Orion ROSS Ultra has twice the warranty and greater stability than its predecessor. It uses a unique reference system developed by Thermo Fisher Scientific that offers longer life, greater stability, and fast results, regardless of sample composition or temperature.



Thomas No.	Mfr. No.	Description	Each
1234Y69	8156BNUWP	ROSS Ultra Combination Electrode w / Epoxy Body, BNC Connector	1
1234Y64	8102BNUWP	ROSS Ultra Combination Electrode w / Glass Body, BNC Connector	1

### Thermo Scientific™ Orion™ ROSS™ Sure-Flow™ pH Electrodes

Orion ROSS Sure-Flow Electrodes provide a free-flowing sleeve junction especially designed for measurement in general pH samples as well as viscous or colloidal samples whenever best performance is desired. The junction can be cleaned easily between measurements.



Thomas No.	Mfr. No.	Description	Each
1234Y72	8172BNWP	ROSS Sure-Flow Combination Electrode, Glass Body, BNC Connector	1
1234Y71	8165BNWP	ROSS Sure-Flow Combination Electrode, Epoxy Body, BNC Connector	1

### ANDalyze AND1000 Handheld Fluorimeter Heavy Metal Analyzer

Simple Field Testing For Heavy Metals  
In Less Than 2 Minutes!

Quickly Test For Lead, Zinc, Uranium,  
Copper, Mercury, Cadmium

Meets US EPA Standards, Fast, Cost Effective,  
Accurate, Real Time Measurement With Easy Operation

Fluorimeter Kit includes:

- AND1000 Fluorimeter
- USB to MINI-B Cable
- 100µL Fixed Volume Pipette and Tips
- pH Test Strips
- AND1000 User Manual
- Case



Thomas No.	Mfr. No.	Description	Each
1203T21	AND001	AND1000 Handheld Fluorimeter	1

For kits and to view video see [www.thomassci.com](http://www.thomassci.com), Search: 1203T21



For pH, ISE, DO Meters,  
see pages 17-21



## Testing *(continued)*

### Thermo Scientific™ Orion™ Ion Selective Electrodes (ISE)

Measurements using an ion selective electrode (ISE) are applicable in virtually every laboratory. ISEs can be used to measure ion concentrations in water, food, pharmaceuticals and biological samples. Ion selective electrodes can be used as endpoint indicators or to perform direct measurement and incremental techniques.



Thomas No.	Mfr. No.	Description	Each
1234Z11	9617BNWP	Orion Chloride Combination Electrode, BNC Connector	1
1234Z24	9770BNWP	Orion Residual Chlorine Combination Electrode, BNC Connector	1
1234Z09	9609BNWP	Orion Fluoride Combination Electrode, BNC Connector	1
1234Z19	9707BNWP	Orion Nitrate Combination Electrode, BNC Connector	1
1234Z10	9616BNWP	Orion Silver / Sulfide Combination Electrode, BNC Connector	1

### Thermo Scientific™ Orion™ Nitrate ISE Replacement Module

Polymer membrane electrodes measure nitrate concentration in the range of 14,000 to 0.1 ppm in soils, plant materials, fertilizers, pickling baths and other aqueous solutions. Other uses listed in Standard Methods.

- EPA approved for NIPDWR compliance monitoring
- Optimal temperature range 0 to 40° C



Thomas No.	Mfr. No.	Description	Each
4210S03	970701	Replacement Nitrate Module for 9707BNWP Electrode	1

### Thermo Scientific™ Orion™ ROSS™ Sure-Flow™ Sodium Electrodes

Allows sodium in aqueous solutions to be measured quickly, accurately, and economically. With its unique internal system, the ROSS electrode provides faster response, greater stability and accuracy than can be obtained from conventional sodium electrodes.



Thomas No.	Mfr. No.	Description	Each
1234Y74	8611BNWP	ROSS Combination Sodium Electrode, BNC Connector	1

### Thermo Scientific™ Orion™ 3-in-1 Triode™ Probes

The Orion Triode 3-in-1 Probe is a practical solution for field and plant use. The pH/Reference/ATC probes are all in one body, so pH and temperature can be measured simultaneously. You get portability and accuracy in one package.



Thomas No.	Mfr. No.	Description	Each
1234Y83	9107BNMD	Orion Triode pH/ATC Electrode with Epoxy Body, BNC and Mini DIN Connectors	1

### Thermo Scientific™ Orion™ Sure-Flow™ Ag/AgCl pH electrodes

Ideal for all routine pH measurements. A large variety of quality electrodes for a wide range of applications. Includes specialty pH electrodes for unique or challenging pH measurements.



Thomas No.	Mfr. No.	Description	Each
1234Y96	9165BNWP	Sure-Flow Combination pH Electrode w / Epoxy Body, BNC Connector, 1 M Cable	1
1234Y97	9172BNWP	Sure-Flow Combination pH Electrode w / Glass Body, Waterproof, BNC Connector, 1 M Cable	1

### Thermo Scientific™ Orion™ Dissolved Oxygen Probes

Durable and accurate DO probe for the lab or field. Cable lengths 1.5 - 20m. Compatible with Thermo Scientific™ Orion™ Star™ A series meters. Mini DIN connector.



Thomas No.	Mfr. No.	Description	Each
1234K48	083005MD	Orion Dissolved Oxygen Epoxy Probe, Mini DIN connector, 1.5M Cable	1

### Thermo Scientific™ Orion™ DO Probe Maintenance Kit

Maintenance Kit includes electrolyte solution (2 oz.), two membrane caps and a polishing disk.



Thomas No.	Mfr. No.	Description	Each
7238F56	080513	Orion Polarographic DO Probe Maintenance Kit	1

### Thermo Scientific™ Orion™ RDO™ Optical DO Probes

- No membranes to change - just replace the sensor once a year
- Probe stores wet or dry



Thomas No.	Mfr. No.	Description	Each
1229X52	087010MD	RDO Optical DO Probe, 3M Cable, Stainless Steel Guard, Optical Cap and Calibration Sleeve	1

### Thermo Scientific™ Orion™ DuraProbe™ 4-Cell Conductivity Probe

DuraProbe probes are designed for the highest accuracy under demanding field and plant conditions. This design compensates for electrode fouling, cable and connector resistance, and polarization errors. A choice of glass/platinum, epoxy/graphite, or stainless steel ensure compatibility with most samples. These probes are temperature compensated and compatible with Thermo Scientific™ Orion™ Star™ A series meters.



Thomas No.	Mfr. No.	Description	Each
1234K43	013010MD	Conductivity Probe, Epoxy/Graphite, K=0.475, 3 M Cable, Mini DIN Connector	1



## Testing (continued)

### Thermo Scientific™ Orion™ AQUAfast™ AQ3010 Turbidity Meter

- Ergonomic IP67 turbidity meter for lab or field use
- Uses Nephelometric principle with 90° detection
- In many locations a separate light cap or shield is not needed
- Meets ISO 7027 and offers consistent IR LED light source for greater accuracy
- No mixing or diluting with EPA-approved polymer bead primary standards for faster calibration
- Three year warranty



Thomas No.	Mfr. No.	Description	Each
1224B94	AQ3010	Orion Aquafast AQ3010 Turbidity Meter Kit	1

### LaMotte 2020we Portable Turbidity Meter

**Your clear choice for turbidity measurement in the field or in the lab.**

New waterproof version is ideal for field or lab use. The unit is rated IP67 and features lithium rechargeable batteries, a backlit display, USB port and seven language options. The 2020we complies with the EPA 180.1 standard using a tungsten light source protected by a unique waterproof chamber with a removable cup.

Includes waterproof carrying case, 6 sample vials and 0, 1 and 10 NTU standards.



Thomas No.	Mfr. No.	Description	Each
1222K67	1970-EPA	2020we Turbidity Meter	1

### Bibby Scientific - Stuart SA8 Vortex Mixer

- Variable speed control between 200 and 2500 rpm
- Intermittent or continuous mode
- Stable low profile body
- Robust die-cast construction



Thomas No.	Mfr. No.	Description	Each
1227Y78	SA8	Vortex mixer, variable speed, 90-250v, 50/60Hz	1

## Benchmark

### Mortexer™ Vortexer

- Unique Multi-Head™ for general purpose vortexing PLUS holds up to eight microtubes (Patent Pending)
- Powerful motor for INSTANT vortexing
- Continuous or "touch" operation
- Q-Drive™ dynamic balancing system
- Variable speed from 200 to 3400 rpm
- Wide variety of accessories



Thomas No.	Mfr. No.	Description	Each
1213F84	BV1005	Mortexer™ Vortexer 115V	1

### Thermo Equipment - Barnstead Micropure Systems

- Backlit display tilts for easy viewing
- Variable speed dispensing
- Optional integrated 6L feed water reservoir so you can place the system without direct access to a water line



Thomas No.	Mfr. No.	Description	Each
1209T50	50132373	MicroPure UV Systems include an ultrapure polisher cartridge, sterile 0.2 µm filter, pressure regulator, and UV lamp, 120-240V, 50/60Hz	1
1209T48	50132370	MicroPure UV/UF Systems include an ultrapure polisher cartridge, sterile 0.2 µm filter, pressure regulator, UV lamp, and ultrafilter, 120-240V, 50/60Hz	1

### Thermo Scientific™ - Barnstead GenPure Pro

The Thermo Scientific Barnstead GenPure Pro water purification system makes up to 200L/day of Type 1 water from a pretreated feedwater supply. The unit ships complete with all necessary consumables and accessories so that the unit can be installed and running the day it is received.



Thomas No.	Mfr. No.	Description	Each
1204P00	50131952	Thermo Scientific Barnstead GenPure Pro UV, 120/240V, 50/60Hz	1
1204P02	50131950	Thermo Scientific Barnstead GenPure Pro UV/UF, 120/240V, 50/60Hz	1
1204P03	50131948	Thermo Scientific Barnstead GenPure Pro UV-TOC, 120/240V, 50/60Hz	1
1204P04	50131922	Thermo Scientific Barnstead GenPure Pro UV/UF-TOC, 120/240V, 50/60Hz	1

### Thermo Scientific™ - Barnstead Smart2Pure Systems

- Based on your requirements, choose from capacities of 3, 6 or 12L/hr
- Lasting economy
- Water purification progresses through independent cartridges with Aquastop quick connects for fast replacement.
- Module 1 - Combination of pretreatment and the reverse osmosis membrane
- Module 2 - Polishing cartridge contains high-quality ultrapure resin for consistent purity and long cartridge life



Thomas No.	Mfr. No.	Description	Each
1209U01	50129885	Smart2Pure UV 6L/hr Systems include a RO/pretreatment cartridge, an ultrapure polisher cartridge, sterile 0.2 µm filter, 6L internal tank, vent filter for tank, pressure regulator, and UV lamp, 120-240V, 50/60Hz.	1
1209U02	50129887	Smart2Pure UV/UF 6L/hr Systems include a RO/pretreatment cartridge, an ultrapure polisher cartridge, sterile 0.2 µm filter, 6L internal tank, vent filter for tank, pressure regulator, UV lamp, and ultrafilter, 120-240V, 50/60Hz.	1



## Testing *(continued)*

### CHEMetrics Ampules for Colorimetric Analysis

Chemistry based on APHA, ASTM and US EPA approved testing procedures

- No mixing, measuring or mess
- Fast and accurate
- Ideal for field or lab use

#### CHEMetrics® Self-Filling Ampules for Colorimetric Analysis

- Designed for maximum simplicity and accuracy



Thomas No.	Mfr. No.	Description	Each
9866E05	K-1510	Ammonia 30 Chemets 0-10 UN1760	1
9866E07	R-1501	Ammonia 30 0-100 Refill Kits UN1760	1
9866E11	R-1501D	Ammonia Refill w / Diluter 0 UN1760	1
9866E19	K-2500	Chlorine 30 Chemets DPD	1
9866E21	R-2500	Chlorine DPD Refill Kit	1
9866E23	K-2505	Chlorine DDPD 30 Chemets	1
9866E25	R-2505	Chlorine Ddp Refill Kit	1
9866E35	R-9400	Detergents Test Refill Pk / Reag	1
9866E47	R-5510	Hydrogen Peroxide Refill Ampoules	1
9866E49	K-6010	Iron Test Kit 0-1 + 1-10 ppm	1
9866E51	R-6001	Iron Test Refil 0-1+1-10 ppm	1
9866E61	K-7511	Dissolved Oxygen 30 ULR Chemets Rhdzne 0-20	1
9866E65	K-7540	Dissolved Oxygen 30 Chemets Rhodazine 0-40	1
9866E69	K-7599	Dissolved Oxygen 30 Chemets Rhodazine 0-100	1
9866E71	R-7540	Dissolved Oxygen Rhodazine Refill Kit	1
9866E73	K-7501	Dissolved Oxygen 30 Chemets Rhodazine 0-1	1
9866E75	R-7501	Dissolved Oxygen Rhodazine 0-1 Refill Kit	1
9866E77	K-7512	Dissolved Oxygen 30 Chemets Indigo 1-12	1
9866E79	R-7512	Dissolved Oxygen Indigo 1-12 Refill Kit	1
9866E89	R-8012	Phenols Refill	1
9866F03	K-9510	Sulfide 30 Chemets UN1760	1
9866F05	R-9510	Sulfide Refill Kit UN1760	1
9866F07	K-9602	Sulfite Titrets Kit UN3316	1

### Thomas® JC Series Microscopes

Versatile Modular upright microscope system, JC Series, with optical excellence from Planachro Infinity optics for biological and clinical research, 10X Eye pieces, 22mm, mechanical stage, power cord, dust cover, 5 Year Manufacturer's Warranty.



Thomas No.	Description	Each
1191D81	Microscope, Binocular, 4x, 10X, 40X & 100Xoil	1
1191D82	Microscope, Trinocular, 4x, 10X, 40X & 100Xoil	1
1191D83	Microscope, Binocular, Phase Contrast, 10x, 20X, 40X & 100Xoil	1
1191D84	Microscope, Trinocular, Phase Contrast, 10x, 20X, 40X & 100Xoil	1

### Thomas® Stereo Zoom Microscopes, 6.5X-45X

Stereo Zoom Microscope, 6.5X-45X magnification range with 10X Eye pieces FN 22mm, lots to see with 22mm field of view, comfortable room to work and 4 inch working height.



Thomas No.	Description
1191D85	Binocular, 6.5X-45X, Illuminated Stand, Dual Halogen
1191D86	Binocular, 6.5X-45X, Illuminated Stand, Halogen/Fluoresce
1191D87	Binocular, 6.5X-45X, Post Stand- No illumination
1191D88	Binocular, 6.5X-45X, Boom Stand- No illumination
1191D89	Trinocular, 6.5X-45X, Illuminated Stand, Dual Halogen
1191D90	Trinocular, 6.5X-45X, Illuminated Stand, Halogen/Fluorescent
1191D91	Trinocular, 6.5X-45X, Post Stand- No illumination
1191D92	Trinocular, 6.5X-45X, Boom Stand- No illumination

### Thomas Microscopes for Wastewater/Filter Particle Analysis

- Assembled in the US for over 15 years
- Durable, reliable instruments with a 5 year warranty
- Complete packages including Phase Contrast for wastewater analysis and Stereo Zoom for filter particle examination
- Excellent quality and support. We answer your questions and respond to your needs
- Camera ready modules allow fast, easy documentation, analysis or presentation



Thomas No. 1191D84



Thomas No. 1191D90

**Thomas  
Scientific**



Check out our new **Thomas Brand Microscopes** at [thomassci.com](http://thomassci.com)

Available in: Upright, compound, inverted compound and stereo models

## Liquid Handling

### Foxx Life Sciences EZgrip™ Carboy

- VersaCap™ technology provides the flexibility of interchangeable top connections
- Large, molded-in graduation marks with  $\pm 5\%$  accuracy
- Autoclavable spigot and VersaBarb™ technology
- EZfil™ 120 mm wide-mouth for easy filling and cleaning



Thomas No.	Description	Each	Pack
1198H99	Carboy, Copolyester, 2.5L, VersaCap 80	1	–
1198J00	Carboy, Copolyester, 5L, No Spigot, VersaCap 80	1	–
1198J01	Carboy, Copolyester, 10L, No Spigot, VersaCap 80	1	–
1198J02	Carboy, Copolyester, 20L, No Spigot, VersaCap 120	1	–
1198H77	Carboy, HDPE, 2.5L, VersaCap 80	1	–
1198H79	Carboy, HDPE, 5L, Spigot, VersaCap 80	1	–
1198H81	Carboy, HDPE, 10L, Spigot, VersaCap 80	1	–
1198H83	Carboy, HDPE, 20L, Spigot, VersaCap 120	1	–
1198H85	Carboy, HDPE, 40L, Spigot, VersaCap 120	1	–
1198H87	Carboy, PP, 2.5L, VersaCap 80	1	–
1198H89	Carboy, PP 5L Spigot VersaCap 80	1	–
1198H92	Carboy, PP, 10L, Spigot, VersaCap 80	1	–
1198H94	Carboy, PP, 20L, Spigot, VersaCap 120	1	–
1198H97	Carboy, PP, 40L, Spigot, VersaCap 120	1	–
1198J57	Spigot	–	2

### Globe Scientific Diamond Advance™ Adjustable Volume Pipettors

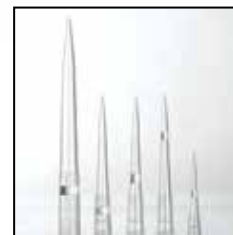
- Fully autoclavable and UV resistant
- 3 year warranty
- Light-weight and ergonomic design
- Easy-to-clean and calibrate in house
- Large 4 digit display window
- Calibrated in an ISO 17025 accredited laboratory



Thomas No.	Mfr. No.	Description	Each
1213E39	3341-1	Diamond Advance™ Pipettor, 0.1 - 2.5uL	1
1213E40	3341-10	Diamond Advance™ Pipettor, 0.5 - 10uL	1
1213E41	3341-20	Diamond Advance™ Pipettor, 2 - 20uL	1
1213E42	3341-50	Diamond Advance™ Pipettor, 5 - 50uL	1
1213E43	3341-100	Diamond Advance™ Pipettor, 10 - 100uL	1
1213E44	3341-200	Diamond Advance™ Pipettor, 20 - 200uL	1
1213E45	3341-1000	Diamond Advance™ Pipettor, 100 - 1000uL	1
1213E46	3341-5000	Diamond Advance™ Pipettor, 500 - 5000uL	1
1213E47	3341-10000	Diamond Advance™ Pipettor, 1 - 10mL	1

### Globe Scientific Filter Pipette Tips

- Manufactured in a cleanroom using fully automated equipment
- Certified free from Human DNA, DNase, RNase, Pyrogens and PCR Inhibitors
- Produced from medical grade virgin polypropylene (PP)
- All tips are graduated for accurate measurements
- Universal fit design provides an airtight fit on most brands of pipettors
- Available in bags, racks and reloading stacks



Thomas No.	Mfr. No.	Description	Pack
1196U28	150800	Low Retention Filter Tip, 0.1 - 10uL, 31mm, Natural, Sterile, Racked	960
1196U29	150810	Low Retention Filter Tip, 1 - 20uL, 54mm, Natural, Sterile, Racked	960
1196U30	150814	Low Retention Filter Tip, 1 - 50uL, 54mm, Natural, Sterile, Racked	960
1196U31	150815	Low Retention Filter Tip, 1 - 100uL, 54mm, Natural, Sterile, Racked	960
1196U32	153820	Low Retention Filter Tip, 1 - 200uL, 54mm, Natural, Sterile, Racked	960
1196U33	150835	Low Retention Filter Tip, 1 - 1000uL, 84mm, Natural, Sterile, Racked	576

### BrandTech® seripettor® Bottletop Dispensers

- No fragile glass parts
- Simple, clear volume adjustment
- One-handed operation
- Automatic refills
- Mounts on most common reagent bottles



The seripettor bottletop dispenser is an economical wiping seal dispenser suitable for many commonly used reagents in biological, clinical, medical, and chemical laboratories. It precisely dispenses a wide variety of liquids. Optional accessories, such as the flexible discharge tube, are available to increase productivity and convenience.

Popular as a buffer dispenser, the seripettor precisely dispenses measured volumes of weak acids, alkaline solutions, polar solvents, isotonic solutions, methanol, and acetylacetone.

Thomas No.	Mfr. No.	Description	Each
1218R57	4721120	Bottletop dispenser, BRAND Seripettor, 0.2-2 mL	1
7755J01	4721140	Seripettor Bottletop Dispenser, 2.5-25 ml	1
7755J04	4721150	Diamond Advance™ Pipettor, 2 - 20 uL	1

### CELLTREAT® Scientific Products Serological Pipets

- Bold, easy-to-read bi-directional graduations
- Contain premium material filter plug
- Color coded for quick volume identification
- Supplied sterile (gamma irradiated)
- Endotoxin-/Pyrogen-free
- RNase-/DNase-free
- Non-cytotoxicity



Thomas No.	Mfr. No.	Description	Case
1222B00	229201B	Serological Pipet, 1mL, Indiv. Wrapped	800
1222B01	229202B	Serological Pipet, 2mL, Indiv. Wrapped	600
1222B02	229205B	Serological Pipet, 5mL, Indiv. Wrapped	200
1222B03	229210B	Serological Pipet, 10mL, Indiv. Wrapped	200
1222B04	229225B	Serological Pipet, 25mL, Indiv. Wrapped	200
1222B05	229230B	Serological Pipet, 50mL, Indiv. Wrapped	90





## Liquid Handling *(continued)*

### Thomas® Transfer Pipets

- Non-toxic and chemically inert to biological fluids and most acids
- Can be heat sealed to use for liquid storage or transport
- Pipets can be frozen in liquid nitrogen
- Non-slippery - easy to grip with gloves
- Temperature range: -196°C to 90°C
- Can be gas (EtO) sterilized



Produced from a custom grade of low-density polyethylene (LDPE), these unbreakable one-piece pipets are used to draw and dispense liquids in controlled, reproducible drop sizes.

Thomas No.	Description	Case
1227W97	7mL, General Purpose	5000
1227W93	5mL, Large Bulb, 0.25mL Graduations to 1 mL	5000
1227W90	7mL, Large Bulb, 0.5mL Graduations to 3 mL	5000
1227W96	8mL, General Purpose, Large Bulb	4000
1227W94	3mL, Small Bulb, 0.25mL Graduations to 1 mL	5000
1227W98	6mL, Extra Long (9")	5000
1227W91	4.5mL, Narrow Stem	5000
1227W92	1.5mL, Mini, 0.1mL Graduations to 0.3 mL	5000
1227W95	5mL, 0.5mL Graduations up to 2 mL	5000
1227W99	23mL, Extra Long (12")	1000
1227W87	1.5mL, Extended Fine Tip, Small Bulb	3200
1227W88	5.8mL, Fine Tip, Standard	5000

### Hirschmann Solarus Digital Burettes

#### Integrated solar panels power electronic components and display

- Available in 10, 20 and 50 mL
- Volume accuracy:  $\pm 0.2\%$
- Head rotates 360°
- Serial bi-directional RS-232 interface

High-grade solar panels work even in limited lighting conditions. The handwheels have a soft-touch surface. Quick-Cal function allows individual calibrations for user-specific applications. The large easy-to-read display eliminates meniscus reading errors while showing volume range, as well as showing if the unit is set to fill or titrate. Reagent recirculation system eliminates reagent loss. All valves are interchangeable. Luer-Lock connection is provided for filter or dry tube. All components that come in contact with media are autoclavable.



Thomas No.	Mfr. No.	Description	Each
1221U68	9392010	SOLARUS, 10 mL	1
7755T80	9392020	SOLARUS, 20 mL	1
7755T85	9392050	SOLARUS, 50 mL	1

### solarus®

HiClass in digital titration

- Power supplied by a solar cell
- Individual calibration of user-specified adaptations with "Quick-Cal"
- Media recirculating system for simple and rapid venting without reagent loss
- Serial bidirectional interface (RS 232 and USB)
- Handwheels with soft touch surface

### HIRSCHMANN®



Please visit [www.thomassci.com](http://www.thomassci.com), Search: Hirschmann

## Safety

### Alpha Pro Tech Critical Cover® AquaTrak® Shoe and Boot Covers

- Sonic Welded, Seamless Sole, Boot Covers feature fluid impervious material and construction
- Ankle ties provide snug fit and security
- Seamless sole provides comfort and traction
- Serged elastic top ensures good closure and support



Thomas No.	Mfr. No.	Description	Case
1230R16	BT-91412-B	Ankle High Boot Covers, fluid impervious, serged seam elastic top, ankle ties, seamless sole, sonic welded seams, blue, Univ	200
1230R17	BT-91413-B	Ankle High Boot Covers, fluid impervious, serged seam elastic top, ankle ties, seamless sole, sonic welded seams, blue, XL	200

For additional Safety Items,  
see [www.thomassci.com/safety](http://www.thomassci.com/safety)



Can't find what you are looking for?  
Visit [thomassci.com](http://thomassci.com) or ask your Thomas Scientific Representative.

*We are here to help!*

**Safety (continued)**

### Alpha Pro Tech Critical Cover® ComforTech® Coveralls

Deliver excellent protection from particles, biologicals and many fluids

- Ultra low particle count
- Material is static dissipative



Thomas No.	Mfr. No.	Description	Case
1223Q04	CV-J4022-1	Coveralls, elastic wrist and ankle, serged seams, white, S	25
1230P03	CV-J4022-2	Coveralls, elastic wrist and ankle, serged seams, white, M	25
1230P04	CV-J4022-3	Coveralls, elastic wrist and ankle, serged seams, white, L	25
1230P05	CV-J4022-4	Coveralls, elastic wrist and ankle, serged seams, white, XL	25
1230P06	CV-J4022-5	Coveralls, elastic wrist and ankle, serged seams, white, 2X	25
1230P07	CV-J4022-6	Coveralls, elastic wrist and ankle, serged seams, white, 3X	25
1230P08	CV-J4022-7	Coveralls, elastic wrist and ankle, serged seams, white, 4X	25

### Microflex MidKnight™ Black Nitrile Gloves

Offers the superior combination of durability and protection against day-to-day hazards in a comfortable nitrile glove

- Powder-free
- Fully textured for enhanced tactile sensitivity and a consistent grip



Thomas No.	Mfr. No.	Description	Pack	Case
1229F24	MK-296-XS	Gloves, Black Nitrile, Extra Small	100	1000
1229F25	MK-296-S	Gloves, Black Nitrile, Small	100	1000
1229F26	MK-296-M	Gloves, Black Nitrile, Medium	100	1000
1229F27	MK-296-L	Gloves, Black Nitrile, Large	100	1000
1229F28	MK-296-XL	Gloves, Black Nitrile, Extra Large	100	1000
1229F29	MK-296-XXL	Gloves, Black Nitrile, 2X-Large	100	1000

### Microflex DuraFlock™ Nitrile Gloves

- 8 mil nitrile, 25% thicker than standard disposable gloves
- 100% nitrile, latex-free
- Increased durability and superior protection
- Comfortable to wear for extended periods and reduces hand fatigue
- Exclusive ultra-thin, moisture-absorbing flock-lining keeps hands dry
- Fully-textured for a firm, reliable grip



Thomas No.	Mfr. No.	Description	Pack	Case
1227N14	DFK-608-S	Gloves DuraFlock™, Nitrile, Small	50	500
1227N15	DFK-608-M	Gloves DuraFlock™, Nitrile, Medium	50	500
1227N16	DFK-608-L	Gloves DuraFlock™, Nitrile, Large	50	500
1227N17	DFK-608-XL	Gloves DuraFlock™, Nitrile, X-Large	50	500
1227N18	DFK-608-XXL	Gloves DuraFlock™, Nitrile, 2X-Large	50	500

### North by Honeywell Laboratory First Aid Kit

- (6) Burn Jel®, 1/8 oz. pouch
- (10) Antiseptic wipes, BZK
- Water Jel® burn dressing, 4" x 4"
- (6) Adhesive bandage, XL, plastic
- (16) Adhesive bandage, 1" x 3", plastic
- (4) Gauze pads, 3" x 3", sterile
- Compress, 4" offset
- Triangular bandage, non-sterile
- Eyewash with (4) eye pads and strips
- Instant Cold Pack
- (2) Adhesive tape, 1/2" x 2-1/2 yd.
- Forceps and scissors
- (2) Nitrile gloves, medical grade
- Poison control directory



Thomas No.	Mfr. No.	Description	Each
1215E22	019750-0034L	Laboratory First Aid Kit	1

### Thomas® Thomas Glass Disposal Boxes

Safely handle broken glass

- Sturdy corrugated cardboard
- 2 mil thick polypropylene liner
- Two models: bench and floor



Thomas No.	Description	Pack
1236E00	Glass Disposal Box, Floor	6
1236E01	Glass Disposal Box, Bench	6

## Sample Containers

### Starplex Scientific VersaTube™ Container

A unique, patented tube with attached cap - simplifying digestion analysis and saving you money!

This versatile disposal tube can also be used for other sample collection, storage and experimental purposes.

- Unique integrated cap and vial
- Ability to vent samples with the hinged cap; no watch glass required
- Certified accuracy of graduations (Class A) and trace metal levels
- Heat resistant polypropylene homopolymer
- Certificate of Analysis in each case
- Etched cap surface for writing
- Compatible with most digestion blocks
- Cap closed when received; no contamination concerns



Thomas No.	Mfr. No.	Description	Case
1218F94	VT502	VersaTube™ Container, 50mL	500



For additional Sample Containers,  
visit [www.thomassci.com](http://www.thomassci.com),  
Keyword: Sample Container



## Sample Containers *(continued)*

**J.G. Finneran**

### Clear Glass Straight Sided Wide Mouth Jars

Ideal for use in soil, sediment and sludge sampling. Preassembled with .015" PTFE or F217 lined closed top white polypropylene closures. Available in standard, precleaned or precleaned/certified in accordance with recommended E.P.A. protocol. Tall also available.



Thomas No.	Mfr. No.	Description	Pack
<b>1204Y18</b>	9-180	2oz, 60mL Clear Glass Short, 53-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
<b>1204Y19</b>	9-181	4oz, 125mL Clear Glass Short, 58-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
<b>1204Y20</b>	9-182	8oz, 250mL Clear Glass Short, 70-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	24
<b>1204Y21</b>	9-183	16oz, 500mL Clear Glass Short, 89-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	12
<b>1204Y22</b>	9-184	32oz, 1000mL Clear Glass Short, 89-400mm Thread, White Polypropylene Closure, .015" PTFE Lined, Standard	12

More sizes available at [www.thomasci.com](http://www.thomasci.com)

**Kimble**

### Short/Tall Form High Precision Specific Gravity Hydrometers

Hydrometers are used to determine the specific gravity of a liquid. Consists of a long glass tube containing a ballast at the base of the float bulb and graduations on the stem. The ballast is made from steel pellets free from lead and mercury.

With over half of the Kimble Chase hydrometer products falling into this category, this is the most common hydrometer classification. Specific gravity hydrometers are available in a variety of graduation ranges and overall lengths.



Thomas No.	Mfr. No.	Description	Each
<b>Short Form</b>			
<b>1188G13</b>	52112-0809	SG 0.820-0.890	1
<b>1188G14</b>	52112-0909	SG 0.880-0.950	1
<b>1188G15</b>	52112-0910	SG 0.940-1.010	1
<b>1188G16</b>	52112-1011	SG 1.000-1.070	1
<b>1188G17</b>	52112-1111	SG 1.060-1.130	1
<b>1188G18</b>	52112-1112	SG 1.120-1.190	1
<b>1188G19</b>	52112-1113	SG 1.180-1.250	1
<b>1188G20</b>	52112-1213	SG 1.240-1.310	1
<b>Tall Form</b>			
<b>1188G01</b>	52112-1213	G 0.760-0.830	1
<b>1188G02</b>	52111-0809	SG 0.820-0.890	1
<b>1188G03</b>	52111-0810	SG 0.880-0.950	1
<b>1188G04</b>	52111-0910	SG 0.940-1.010	1
<b>1188G05</b>	52111-1011	SG 1.000-1.070	1
<b>1188G06</b>	52111-1111	SG 1.060-1.130	1
<b>1188G07</b>	52111-1112	SG 1.120-1.190	1
<b>1188G08</b>	52111-1212	SG 1.180-1.250	1
<b>1188G09</b>	52111-1213	SG 1.240-1.310	1
<b>1188G10</b>	52111-1314	SG 1.300-1.370	1
<b>1188G11</b>	52111-1414	SG 1.360-1.430	1
<b>1188G12</b>	52111-1415	SG 1.420-1.490	1

## MAKE THE CLEAR CHOICE WITH KIMBLE HYDROMETERS



Accurately measure the specific gravity of your water, waste water, seawater, or other environmental samples with Kimble brand hydrometers.

- Free of toxic heavy metals
- Made in the USA
- Accuracy meets or exceeds the requirements of ASTM standard E100
- Calibrated in accordance with ASTM E126 with reference standards traceable to NIST



**Kimble**

### Precision Specific Gravity Hydrometers

Hydrometers are used to determine the specific gravity of a liquid. Consists of a long glass tube containing a ballast at the base of the float bulb and graduations on the stem. The ballast is made from steel pellets free from lead and mercury.

With over half of the Kimble Chase hydrometer products falling into this category, this is the most common hydrometer classification. Specific gravity hydrometers are available in a variety of graduation ranges and overall lengths.



Thomas No.	Mfr. No.	Description	Each
<b>1188F92</b>	52110-0708	SG 0.700-0.810	1
<b>1188F93</b>	52110-0809	SG 0.800-0.910	1
<b>1188F94</b>	52110-0910	SG 0.900-1.000	1
<b>1188F95</b>	52110-1012	SG 1.000-1.220	1
<b>1188F96</b>	52110-1214	SG 1.200-1.420	1
<b>1188F97</b>	52110-1416	SG 1.400-1.620	1
<b>1188F98</b>	52110-1618	SG 1.600-1.820	1
<b>1188F99</b>	52110-1820	SG 1.800-2.000	1
<b>1188G00</b>	52110-2000	Set of 8 Precision SG Hydrometers, 0.695-2.000	1



## Sample Prep

### Thomas®

#### Thomas Wiley® Mini-Mill

Our smallest mill - but still Wiley® tough

- 1.6 inch diameter milling chamber - 1.7 cu. in.
- 1 to 25 gram sample volume
- Three speeds - 860, 1,700 and 3,700 rpm
- All steel construction
- Removable safety glass plate permits viewing of sample during milling and allows easy access to interior for cleaning
- As suggested by the U.S. Bureau of Plant Industry for milling of samples



Thomas No.	Description	Each
3383L10	Wiley® Mini Mill, 115V, 60Hz	1

## Sample Storage Bags

### Dynalon

#### Zipper Seal Bags, LDPE

These heavyweight (2 mil) polyethylene bags are ideal for collecting, storing and protecting laboratory specimens and samples easily and conveniently. Sealed bags keep dust out. Not suggested for use with liquids. Many uses in the lab and industry. Bags lock easily and securely with the zipper locking feature. No printing on the bag allows for easier labeling and marking.



Thomas No.	Mfr. No.	Description	Case
1216B43	628325	Bag Zipper Seal LDPE, 2 mm, 2 x 3"	1000
1216B44	628335	Bag Zipper Seal LDPE, 2 mm, 3 x 5"	1000
1216B45	628345	Bag Zipper Seal LDPE, 2 mm, 4 x 6"	1000
1216B46	628355	Bag Zipper Seal LDPE, 2 mm, 5 x 8"	1000

### Bel-Art Products

#### Scienceware® Biohazard Disposal Bags with Indicator

Bright red polypropylene bags include black biohazard symbol and precautionary procedures printed in four languages (English, Spanish, French, German) for added safety.

- Sterilization patch darkens when subjected to steam sterilization
- High temperature steam autoclavable to 135°C (275°F)
- Pass ASTM 1922 Tear Resistance and ASTM 1709 Dart Impact Tests
- Made in the USA



Thomas No.	Mfr. No.	Description	Case
1304Q63	F131641419	Bag, Wr, Biohazard Disposal, 14 X 19, PP, Red	200
1304Q65	F131641923	Bag, Wr, Biohazard Disposal, 19 X 23, PP, Red	200
1304Q67	F131642535	Bag, Wr, Biohazard Disposal, 25 X 35, PP, Red	200

## Sample Transport

### Polar Tech

#### Thermo Chill™ Nylon Transport Carriers

Ideal for the transport of temperature sensitive serums, tissue samples, lab specimens, blood field samples and medical supplies.

- Thick wall 1-1/2" EPS foam insulation (reusable year after year)
- Light weight
- Optimum temperature retention



Thomas No.	Mfr. No.	Description	Each
1203F64	251/T51N	Thermo Chill™ Nylon Transport Carrier, Red	1
1203F65	229/T27N	Thermo Chill™ Nylon Transport Carrier, Blue	1

### Polar Tech

#### ICE-BRIX® and XTREME BRIX Cold Packs

ICE-BRIX® is the ultimate in refrigerant cold packs. Their unique features include:

- Long lasting cold
- Efficient transfer of energy
- Leakproof
- Reusable



Thomas No.	Mfr. No.	Description	Case
1203F62	IB 6	1 case of 48 ICE-BRIX® IB 6	48
1206G97	IB 48	1 case of 6 ICE-BRIX® IB 48	6
1206G98	XB 12	1 case of 24 XTREME BRIX XB 12	24
1206H00	XB 48	1 case of 6 XTREME BRIX XB 48	6

### Polar Tech

#### RE-FREEZ-R-BRIX Foam Refrigerant

RE-FREEZ-R-BRIX™ is a block of rigid foam that holds its shape frozen or thawed and is reusable. Non-toxic, reusable, sealed in a heavy plastic pouch, maintains shape. Prevents thawing – Keeps frozen products chilled for an extended period of time. Protects against freezing – When packaged in properly insulated containers, warmed RE-FREEZ-R-BRIX™ release heat, keeping perishables from freezing. Protects from warming – Keeps perishables requiring a temperature range of 32°F to 60°F at a safe, uniform cool temperature for over 14 days.



Thomas No.	Mfr. No.	Description	Case
1206H01	RB 8	1 case of 21 RE-FREEZ-R-BRIX RB 8	21
1206H02	RB15	1 case of 12 RE-FREEZ-R-BRIX RB 15	12
1206H03	RB 30	1 case of 6 RE-FREEZ-R-BRIX RB 30	6
1206H04	RB 28	1 case of 6 RE-FREEZ-R-BRIX RB 28	6
1206H05	RB 60	1 case of 3 RE-FREEZ-R-BRIX RB 60	3



## Sample Transport *(continued)*

### Polar Tech Cool Stuff Mailers

Cool Stuff Mailers provide intermediate duty, longer term shipping, thermal safe protection for pharmaceuticals, specimens and other refrigerated or frozen products.

- 1/2" effective moisture and thermal barrier
- Dual self seal closure, thermal effective and tamper resistant mailer
- 1/2" fiber insulation safely cushions and thermally protects contents



Thomas No.	Mfr. No.	Description	Case
1206G50	192	Case of 18 Side Load Mailers, 9 x 11"	18

### Polar Tech ONE® Laboratory Certified, Prevalidated Shipping Kits

Choose the ONE that meets your needs. ONE® Prevalidated Shipping Kits hold ISTA 2-8°C for 48 hours. Each Kit includes: 1 2 mil poly bag, 1 twist tie, 2 instruction sheets, 1 payload carton, 1 foam container, 1 corrugated box, and refrigerant.



Thomas No.	Mfr. No.	Description	Each
1206H08	222/ONE	1 case of 222/ONE with 3 RB30 and 2 RB60 refrigerants	1

## Soil Analysis

### C & G Container Terra Core Sampler

The Terra Core Sampler is a single use device that cannot be cleaned and/or reused. A two piece disposable field sampler. This sampler is designed to store soil and not solvents or free product.



Thomas No.	Mfr. No.	Description	Case
1203F02	SSC005800E09	5 gram Terra Core sampler	100
1203F03	SSC010080E09	10 gram Terra Core sampler	100

### C & G Container En Core® Sampler

- En Core® Sampler is a SINGLE USE device. It cannot be cleaned and/or reused.
- En Core® Sampler is designed to store soil. Do not use En Core Sampler to store solvent or free product
- En Core® Sampler must be used with En Core® T-Handle and/or En Core® Extrusion Tool exclusively. (These items are sold separately.)



Thomas No.	Mfr. No.	Description	Each	Case
1203F04	SSC005700E09	5 gram En Core® Sampler	—	50
1203F05	SSC025770E09	En Core® Sampler T-HANDLE for 5 & 25 gram	1	—

### LaMotte Soil Sampler

- Chrome-plated steel
- Takes samples in all types of soils up to a depth of 915 mm
- Consists of sampling tube, two extension rods and handle bar

305 mm-long sampling tube has cutting tip and cutaway wall for inspection and removal of soil core. Sampling depth can be increased to 610 or 915 mm by attaching extension rod. Rods are marked at mid-point depth. Packaged disassembled in fiberboard carrying tube.



Thomas No.	Mfr. No.	Description	Each
8329L70	1016	Soil Coring Tube	1

### LaMotte Soil Sampling Bag

Size 152 x 102 mm, with tongue-and-groove closure. Instructions for collection and preparation of soil samples are printed on bag.



Thomas No.	Mfr. No.	Description	Pack
8329L25	0615-J	Soil Sampling Bag	100

### LaMotte Soil Texture Unit

- For separating soil sample into its sands, silt and clay fractions

Consists of three calibrated conical tubes, three-place plastic rack, 2-oz. dropper bottle of flocculating reagent, and soil handbook.



Thomas No.	Mfr. No.	Description	Each
8329L85	1067	Soil Texture Unit	1

### LaMotte Soil Analysis Outfit, Model STH-14

- Tests performed on liquid soil extract
- Reagents and labware mounted in foam-lined, removable shelves in a carrying case of ABS plastic
- Tests for 14 macro and micro nutrients that are available for plate uptake



Thomas No.	Mfr. No.	Description	Each
8329B10	5010-01	Soil Analysis Outfit, Model STH-14	1



**m-FC Broth with  
Rosolic Acid, see page 53**

## Soil Analysis (continued)

LaMotte  
Soil pH Test Kit,  
Tablets

By popular demand, TesTabs® method.  
Companion to Soil NPK kit (Code 3-5880).  
Simple diagrammed instructions.

- 50 tests for pH
- Wide Range 4-11 in 1.0 pH units
- Distilled or deionized water recommended



Thomas No.	Mfr. No.	Description	Each
1222U68	5912	Soil pH Test Kit, Tablets	1

## Bel-Art Products

Scienceware® White  
Sterileware® Scoops

Scienceware® White Sterileware® Scoops are  
the perfect shape and size for taking samples,  
especially from wide-mouth containers.

- Stays upright when packed or unpacked for use as weighing boat
- 2 and 4 oz. scoops have a longer handle to keep hand away from sample
- High-impact, FDA grade polystyrene
- Sterilized by Gamma Irradiation, lot stamped for accurate tracing, individually packed for one time use and disposal, and shipped with a Certificate of Processing



Thomas No.	Mfr. No.	Description	Pack	Case
8268N20	H369020000	Sterileware® Scoop, White, 60 ml (2 oz.)	—	100
1222X31	H369020010	Sterileware® Scoop, White, 60 ml (2 oz.)	10	—
8268N30	H369040000	Sterileware® Scoop, White, 125 ml (4 oz.)	—	100
1222X33	H369040010	Sterileware® Scoop, White, 125 ml (4 oz.)	10	—
8268N40	H369060000	Sterileware® Scoop, White, 250 ml (8 oz.)	—	100
1222X35	H369060010	Sterileware® Scoop, White, 250 ml (8 oz.)	10	—

## Bel-Art Products

Scienceware® Sterileware®  
Economy Sample Spoons

Economical Solution for Small Quantities  
of Dry or Liquid Measures

These economical measures are ideal for retrieving small, specific volume samples of powders or liquids. Their unique flat bottom shape allows them to be used as weighing boats for additional sampling accuracy. Use a separate spoon for each material sampled to avoid cross contamination. All sizes are made from white, high-impact polystyrene for durability and stiffness when sampling packed powders.



Thomas No.	Mfr. No.	Description	Pack
1222X22	F367400110	Sample Spoon, Sterileware®, 1.25 ml	10
1222X23	F367400210	Sample Spoon, Sterileware®, 2.5 ml	10
1222X24	F367400310	Sample Spoon, Sterileware®, 5 ml	10
1222X25	F367400410	Sample Spoon, Sterileware®, 8 ml	10
1222X26	F367400510	Sample Spoon, Sterileware®, 20 ml	10

## Tubes

CELLTREAT® Scientific Products  
Centrifuge Tubes

- Manufactured in a Class 100,000 clean room
- Made of high-clarity polypropylene
- Bold graduations, accurate to  $\pm 2\%$
- Large white marking area
- Caps made of polyethylene
- Maximum RCF is 12,000g for 15 mL conical bottom tubes, 16,000g for 50mL conical bottom tubes, and 6,000g for selfstanding tubes
- Temperature range: -80° C to 120° C
- Sterile (gamma irradiated), RNase-free, DNase-free, DNA-free, non-pyrogenic



Thomas No.	Mfr. No.	Description	Case
1228K62	229411	15 ml Centrifuge Tube, Re-sealable Bag	500
1222B17	229412	15 ml Centrifuge Tube, Foam Rack	300
1228K64	229421	50 ml Centrifuge Tube, Re-sealable Bag	500
1222B18	229422	50 ml Centrifuge Tube, Foam Rack	300

Globe Scientific  
Borosilicate Glass  
Culture Tubes

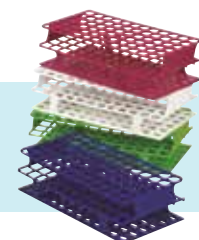
- Material: Type 1, Class A Borosilicate Glass
- Tubes can be used for tissue culture and blood banks
- Tubes are chemically inert
- Produced in an ISO 9001:2008 certified factory
- Tubes feature well-rounded bottoms and smooth fire-polished rims
- Meets ASTM E890 specification, type 1 requirements
- Conforms to USP Type 1 standards



Thomas No.	Mfr. No.	Description	Box	Case
1218M69	1503	Borosilicate Glass Culture Tube, 10 x 75mm, 3 ml	250	1000
1218M70	1505	Borosilicate Glass Culture Tube, 12 x 75mm, 5 ml	250	1000
1218M71	1510	Borosilicate Glass Culture Tube, 13 x 100mm, 7 ml	250	1000
1218M72	1512	Borosilicate Glass Culture Tube, 16 x 100mm, 10 ml	250	1000
1218M73	1515	Borosilicate Glass Culture Tube, 16 x 125mm, 12 ml	250	1000
1218M74	1517	Borosilicate Glass Culture Tube, 16 x 150mm, 15 ml	250	1000



Need a rack?  
Visit [thomassci.com](http://thomassci.com)







## SIGMA-ALDRICH®

Solid and water samples can be prepared for the analysis of environmental contaminants using a variety of techniques as described in various EPA methods.

**Relevant Methods:** US EPA 3540, 3541, 3550, 3510, 3520, 3535, 508, 608, 525, 625, and many additional methods.

### High Purity Solvents

Sigma offers several brands of high-purity solvents suitable for environmental testing. These include CHROMASOLV® Plus and pesticide residue grade(PRA) product lines.

- Suitable for environmental testing
- Tested for purity
- Many types of solvents available

### 2-Propanol

*for pesticide residue analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C74</b>	34486-4X2.5L	—	Fluka	4 x 2.5 L

### Acetic acid

*for trace analysis, =99.0%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C76</b>	45727-2.5L-F	TraceSELECT®	Fluka	2.5 L

### Acetone

*for HPLC, =99.9%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C81</b>	650501-4X4L	CHROMASOLV® Plus	Sigma-Aldrich	4 x 4 L

### Acetone

*capillary GC grade, =99.9%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C68</b>	414689-4X4L	Capillary GC	Fluka	4 x 4 L

### Acetonitrile

*for HPLC, =99.9%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C65</b>	439134-4L	CHROMASOLV® gradient	Sigma-Aldrich	4 L
<b>C995C64</b>	34851-4X4L	CHROMASOLV® gradient	Sigma-Aldrich	4 x 4 L

### Ammonium hydroxide solution

*28.0-30.0% NH<sub>3</sub> basis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C80</b>	221228-500ML-A	ACS reagent	Sigma-Aldrich	500 mL

### Dichloromethane

*for HPLC, =99.9%, contains 50-150 ppm amylene as stabilizer*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C82</b>	650463-4X4L	CHROMASOLV® Plus	Sigma-Aldrich	4 x 4 L

### Dichloromethane

*99.9%, contains 50-150 ppm amylene as stabilizer*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C71</b>	494453-2L	biotech. grade	Sigma-Aldrich	2 L

### Diethyl ether

*for residue analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C69</b>	31671-2.5L	—	Fluka	2.5 L

### Diethyl ether

*=99.0%, contains BHT as inhibitor*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C67</b>	673811-4L	anhydrous, ACS reagent	Sigma-Aldrich	4 L

### Ethyl acetate

*≥99.5%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C55</b>	319902-20L	ACS reagent	Sigma-Aldrich	20 L

### Ethylene glycol

*≥99%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C72</b>	102466-4L	ReagentPlus®	Sigma-Aldrich	4 L

### Hexane

*for HPLC, =95%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C83</b>	650552-4X4L	CHROMASOLV® Plus	Sigma-Aldrich	4 x 4 L

### Hydrochloric acid

*≥37%, for trace analysis, fuming*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C77</b>	84415-500ML	TraceSELECT®	Fluka	500 mL

### Hydrochloric acid

*37%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C78</b>	320331-6X2.5L	ACS reagent	Sigma-Aldrich	6 x 2.5 L

### Hydrogen peroxide solution

*contains inhibitor, 30 wt. % in H<sub>2</sub>O*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C85</b>	216763-4L	ACS reagent	Sigma-Aldrich	4 L

**SIGMA-ALDRICH®** (continued)**Methanol***for pesticide residue analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C70</b>	34485-4X2.5L	—	Fluka	4 x 2.5 L

**Methanol***for HPLC*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C84</b>	646377-4X4L	CHROMASOLV® Plus	Sigma-Aldrich	4 x 4 L

**Nitric acid***70%, purified by redistillation, ≥99.999% trace metals basis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C984V29</b>	225711-475ML	—	Aldrich	475 mL

**Nitric acid***70%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C60</b>	695033-2.5L	ACS reagent	Sigma-Aldrich	2.5 L
<b>C995C58</b>	438073-6X2.5L	ACS reagent	Sigma-Aldrich	6 x 2.5 L

**Pentane***for residue analysis (of high-volatile halogenated hydrocarbons), ≥99.0%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C73</b>	76866-2.5L	—	Fluka	2.5 L

**Sodium chloride***≥99.0%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C53</b>	S9888-2.5KG	ACS reagent	Sigma-Aldrich	2.5 kg

**Sigma-Aldrich****Empore™ SPE Disks Oil and Grease**

Developed specifically for EPA Method 1664A - Oil & Grease (n-Hexane Extractable Material (HEM) in Aqueous Samples).

- Compatible with Horizon SPE Extractors

Obtain faster flow-rates without sacrificing recovery and reproducibility.

**One-piece 3-layer construction:**

- Top layer - PP pre-filter
- Middle layer - Flow enhancing C18 sorbent
- Bottom layer - PP scrim
- Reduced SPE Bed Mass = Reduced SPE Solvent and Elution Volumes
- Minimize SPE eluate evaporation time
- Potentially allows for direct injection of the SPE eluate
- Dense and; Uniform Extraction Medium = No SPE Channeling and Voiding
- Efficient mass-transfer kinetics allow for faster flow rates
- Eliminate SPE fines improving column and instrument life

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>C995C61</b>	66887-U	Empore Oil and Grease 47mm	20

**Sigma-Aldrich****Empore™ Styrene DVB (SDB-XC) 47mm****Application**

Developed for the extraction of moderately polar to non-polar analytes from aqueous samples and soil extracts. Amenable for the following methods:

- EPA method 515.2 - Chlorinated Acids
- EPA method 526.1 - Selected Semi-volatile organics
- EPA Method 527 - Selected Pesticides & Flame Retardents
- EPA Method 553
- 8041 - Phenols
- 8081 - Organochlorine Pesticide Leachate
- 8270 - Semi-volatile Organic Compounds - TCLP Leachate
- 8321 - Phenoxyacid Herbicides - TCLP Leachate
- 8330 - Nitroaromatics and Nitroamines
- NIOSH 5602 - Alachlor in air

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>C995C62</b>	66884-U	Empore Styrene DVB (SDB-XC) 47mm	20

**Sodium sulfate***≥99.0%, anhydrous, granular*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C50</b>	239313-2.5KG	ACS reagent	Sigma-Aldrich	2.5 kg
<b>C995C52</b>	239313-50KG	ACS reagent	Sigma-Aldrich	50 kg
<b>C995C51</b>	239313-12KG	ACS reagent	Sigma-Aldrich	12 kg

**Sulfuric acid***puriss. p.a., for determination of mercury, reag. ISO, reag. Ph. Eur., 95-97%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C990F67</b>	30743-1L	ACS reagent	Sigma-Aldrich	1 L

**Sulfuric acid***≥95%, for trace analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C79</b>	84716-1L	TraceSELECT®	Fluka	1 L

**Tin(II) chloride dihydrate***98%*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C63</b>	243523-500G	ACS reagent	Sigma-Aldrich	500 g

**Toluene***for pesticide residue analysis acc. to FDA*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C75</b>	34494-4X2.5L	—	Fluka	4 x 2.5 L

**pH-Universal indicator sticks pH 0-14***non-bleeding*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>1215V83</b>	37026-1EA	—	Fluka	EA/1

**Water***Molecular Biology Reagent*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Size
<b>C995C54</b>	W4502-6X1L	Molecular Biology Reagent	Sigma	6 x 1 L



For detecting trace impurities and pollutants at environmental testing firms, industry environmental health and safety specialists.

These analytical reagents and other laboratory chemicals are at work in environmental testing labs, and are utilized in the following techniques: analytical chromatography, spectrophotometry and a host of advanced element analysis techniques, including inductively coupled plasma and atomic absorption.

## Acetic Acid Glacial

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C005R50</b>	9524-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	6 x 2.5 L

## Acetone

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C006V08</b>	9254-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Acetone

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C006U09</b>	H451-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Acetonitrile

*for Use in Liquid Chromatography and Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C000A77</b>	9012-03	HPLC	Baker	Glass Bottle	4 L
<b>C007K23</b>	9017-03	HPLC UltraGradient	Baker	Glass Bottle	4 L

## Ammonium Hydroxide 30%

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0149D10</b>	9733-01	BAKER INSTRA-ANALYZED™	Baker	Poly Bottle	12 x 500 mL

## Baker PHIX pH 0-14

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>3108W03</b>	4390-01	—	Baker	—	100 PK

## Ether, Anhydrous

*suitable for Fat Extraction, Contains BHT as a Preservative*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C313K14</b>	9244-03	BAKER ANALYZED ACS Reagent	Baker	SAFETAINER	4 L

## Ethyl Acetate

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C314W38</b>	4992-19	AR (ACS)	Mallinkrodt	Steel Pail	20 L

## Ethylene Glycol

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C318E73</b>	9300-03	BAKER ANALYZED Reagent	Baker	Glass Bottle	4 L

## Florisil SPE Column 1000mg 6ml

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0144L81</b>	7213-27	SPE	Baker	—	250 EA

## Hexane (95% N-Hexane)

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C389S59</b>	9262-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Hexane (95% N-Hexane)

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C389N56</b>	H487-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Hydrochloric Acid

*for Trace Element Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C395M21</b>	5587-46	AR Select (ACS)	Mallinkrodt	SAFEMOR	2.5 L

## Hydrochloric Acid (36.5 - 38.0%)

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C395M37</b>	9530-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L
<b>C395M67</b>	9535-03	BAKER ANALYZED ACS Reagent	Baker	Glass Bottle	2.5 L

## 2-Propanol

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C630H90</b>	9334-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Methanol

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C490C17</b>	9263-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

## Methanol

*for Purge and Trap Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C490C61</b>	9077-02	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	1 L

## Methyl Alcohol

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C493E14</b>	H488-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

## Methyl Alcohol, Anhydrous

*for Laboratory, Research, or Manufacturing Use*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0562A23</b>	3004-08	—	Mallinkrodt	Glass Bottle	4 L





### Methyl Alcohol, Anhydrous, ChromAR

*suitable for Liquid Chromatography and UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C493E18</b>	3041-06	ACS, ChromAR	Mallinkrodt	Glass Bottle	1 L

### Methylene Chloride

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C499R40</b>	9264-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

### Dichloromethane Stabilized

*suitable for LC, Extraction/Concentration, UV-Spectrophotometry*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C269L40</b>	H485-10	UltimAR®	Mallinkrodt	Glass Bottle	4 L

### Nitric Acid

*for Trace Element Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C544G50</b>	6623-46	AR Select (ACS)	Mallinkrodt	SAFEMOR	2.5 L
<b>C544E80</b>	6901-05	UltimAR®	Baker	Fluoropolymer Bottle	500 mL

### Nitric Acid

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C544H94</b>	9598-34	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L

### Pentane

*for Organic Residue Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C572J60</b>	9333-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

### Sodium Chloride

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C710L89</b>	3624-05	BAKER ANALYZED ACS Reagent	Baker	Poly Bottle	2.5 kg

### Sodium Sulfate

*suitable for Use in Pesticide Residue Analysis, Tested for Hexane Extractable Impurities*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C724B91</b>	3375-05	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	2.5 kg
<b>C724B64</b>	3375-07	ULTRA RESI-ANALYZED™	Baker	Fiber Lined Drum	12 kg
<b>C724B67</b>	3375-09	ULTRA RESI-ANALYZED™	Baker	Fiber Lined Drum	45.5 kg
<b>C724B72</b>	8024-06	AR (ACS)	Mallinkrodt	Glass Bottle	2.5 kg
<b>C724B78</b>	8024-20	AR (ACS)	Mallinkrodt	STAKMOR	12 kg

### Avantor – J.T.Baker®

### BAKERBOND® Speedisk® Extraction Disks for Manual Extraction Stations



Easier, faster and more economical testing of all water sampling types

Patented Speedisk extraction disks are neither cartridge nor membrane. A thin bed of BAKERBOND® sorbent is supported in a laminar configuration to allow for filtration, resist clogging and maximize capacity, adsorption and speed.

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>0144N38</b>	8068-06	BAKERBOND Speedisk® H2O-Phobic DVB Extraction Disk	20
<b>8330C16</b>	8060-06	BAKERBOND Speedisk® Oil and Grease, 50mm	20

### Sulfuric Acid

*for Trace Metal Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C746N58</b>	9673-33	BAKER INSTRA-ANALYZED™	Baker	Poly Coated Glass Bottle	2.5 L

### Toluene

*for Organic Residue Analysis*

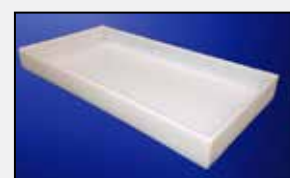
Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>0148W64</b>	9336-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

### Water

*for Environmental Inorganic and Organic Trace Analysis*

Thomas No.	Mfr. No.	Grade	Brand	Pkg. Type	Pkg. Size
<b>C864S96</b>	4219-03	ULTRA RESI-ANALYZED™	Baker	Glass Bottle	4 L

### Scientific Plastics Spill Containment Trays



- Laboratory spill trays are a minimum 3/16" thick, one piece stress free, virgin polyethylene with smooth interior walls and coved corners for easy cleaning
- Trays conform to ASTM #1412 for corrosion resistance, and provide secondary containment complying with OSHA 1910.1450 and EPA 264.175 for chemical stockrooms/storerooms

Thomas No.	Mfr. No.	Description
<b>1185F75</b>	T521816-101	Spill Containment Tray, 16 x 18 x 1"
<b>1189Y31</b>	T521816-201	Spill Containment Tray, 16 x 18 x 2"
<b>1185F76</b>	T522218-101	Spill Containment Tray, 22 x 18 x 1"
<b>1189Y32</b>	T522218-201	Spill Containment Tray, 22 x 18 x 2"
<b>1185F77</b>	T522818-101	Spill Containment Tray, 28 x 18 x 1"
<b>1189Y33</b>	T522818-201	Spill Containment Tray, 28 x 18 x 2"
<b>1185F78</b>	T523418-101	Spill Containment Tray, 34 x 18 x 1"
<b>1189Y34</b>	T523418-201	Spill Containment Tray, 34 x 18 x 2"
<b>1185F79</b>	T524618-101	Spill Containment Tray, 46 x 18 x 1"
<b>1189Y35</b>	T524618-201	Spill Containment Tray, 46 x 18 x 2"



## Acetic Acid, Glacial

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001C20</b>	AX0073-75	GR ACS	Poly Coated Glass Bottle	2.5 L
<b>C005Q96</b>	AX0073-9	GR ACS	Glass Bottle	2.5 L

## Acetone

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C006S35</b>	AX0120-3	GR ACS	Metal Can	20 L
<b>0612A41</b>	AX0120-8	GR ACS	Glass Bottle	4 L

## Acetonitrile

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0611K45</b>	AX0149-1	GR ACS	Glass Bottle	4 x 4 L

## Ammonium Hydroxide

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C992F94</b>	AX1308-7	OmniTrace Ultra™	HDPE Bottle	250 mL

## Dichloromethane

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C269H73</b>	DX0831-1	OmniSolv®	Glass Bottle	4 L

## Ethyl Ether, Anhydrous

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C313K63</b>	EX0190-3	GR ACS	Metal Can	4 L

## Ethyl Acetate

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0609P33</b>	EX0240-3	GR ACS	Metal Can	20 L

## n-Hexane 95%

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001C35</b>	HX0295-1	OmniSolv®	Glass Bottle	4 L

## Hydrochloric Acid

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C395L92</b>	HX0603-3	GR ACS	Glass Bottle	2.5 L

## Hydrochloric Acid 34-37%

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001S13</b>	HX0607-4	OmniTrace®	Glass Bottle	2.5 L

## Hydrogen Peroxide Solution 30% W/W

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C396V54</b>	HX0635-6	GR ACS	Poly Bottle	2.5 L

## EMD Millipore pH-Indicator Strips

- Rapid on-the-spot pH determination
- More precise evaluation thanks to differentiated color gradients
- Expressive results for environmental analysis and in-process controls
- Calibration and checking of the products by certified buffer solutions



Thomas No.	Mfr. No.	Description	Pack	Case
<b>1205P17</b>	1.09540.0001	pH-indicator strips pH 0 - 2.5	100	10,000
<b>1205P19</b>	1.09541.0001	pH-indicator strips pH 2.5 - 4.5	100	10,000
<b>1205P21</b>	1.09542.0007	pH-indicator strips pH 4.0 - 7.0	600	—
<b>1205P24</b>	1.09543.0007	pH-indicator strips pH 6.5 - 10.0	600	—
<b>1205P27</b>	1.09545.0001	pH-indicator strips pH 11.0 - 13.0	100	10,000

## Methanol, Pesticide Residue Grade

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0612A12</b>	MX0484-1	OmniSolv®	Glass Bottle	4 L

## Methanol, Anhydrous

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>0612A08</b>	MX0487-5	GR ACS	Glass Bottle	4 L

## Nitric Acid

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001S15</b>	NX0407-4	OmniTrace®	Glass Bottle	2.5 L
<b>C001F73</b>	NX0408-1	OmniTrace Ultra™	FEP Bottle	500 mL
<b>C544F70</b>	NX0409-2	GR ACS	Glass Bottle	2.5 L

## Petroleum Ether, Non UV

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C577M30</b>	PX0424-1	OmniSolv®	Glass Bottle	4 L

## Isopropyl Alcohol

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C631H90</b>	PX1834-1	OmniSolv®	Glass Bottle	4 L

## Sodium Chloride

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C995Q15</b>	1.06406.0500	Suprapur®	Plastic Bottle	500 g

## Sodium Chloride

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C995C42</b>	1.02406.0080	Certipur®	Glass Bottle	80 g



(continued)

**Sodium Sulfate, Anhydrous, Granular**

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C724B98</b>	SX0760-20	GR ACS	Fiber Drum w/ Bag	45 kg
<b>C724B93</b>	SX0760-3	GR ACS	Glass Bottle	2.5 kg
<b>0610T74</b>	SX0760-5	GR ACS	Poly Pail	12 kg

**Sulfuric Acid**

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C746D54</b>	SX1244-5	GR ACS	Glass Bottle	2.5 L

**Sulfuric Acid, 95.5-96.5%**

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001T01</b>	SX1247-4	OmniTrace®	Glass Bottle	2.5 L

**Toluene**

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C821H70</b>	TX0737-1	OmniSolv®	Glass Bottle	4 L

**Water**

Thomas No.	Mfr. No.	Grade	Pkg. Type	Pkg. Size
<b>C001D88</b>	WX0003-2	OmniTrace Ultra™	LDPE Bottle	2 L

**EMD Millipore  
Millipore Media****Millipore Media: Standards  
for Reliability and Simplicity**

- Nutrient media developed specifically for culturing microorganisms on mem/liane filter
- Selective media forms to match organism type and analytical test needs
- Precise quality control procedures during ampouled media manufacture and testing ensure optimal growth and maximum shelf life
- m-Endo and M-FC medium is manufactured for use in the bacteriological analysis of potable waters in accordance with procedures referenced in Standard Methods (recent edition) and laboratory standards for equipment and materials set forth by the U.S. Environmental Protection Agency
- Dehydrated media in pads are also available



Thomas No.	Mfr. No.	Description	Pack
<b>1217M71</b>	MHA000P2E	M-Endo Liquid Media Ampoule, 2 mL	50
<b>1217M72</b>	MHA000P2F	m-FC Broth with Rosolic Acid, 2 mL	50

**SPEX CertiPrep®****ORGANIC STANDARDS**

Drinking Water Laboratories use US EPA Methods to determine levels of nitrosamines (Method 521), organic compounds (Method 525), explosives and related compounds (Method 529), and chloroacetanilide and other acetamide herbicide degradates (Method 535) in drinking water. These standards are exclusively designed for GC, GC/MS, HPLC, and HPLC/MS analyses.

**Method 505**

*EPA 505: Analytical method for the monitoring of organochlorine pesticides and PCBs in drinking water and raw source water by GC-ECD.*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C901Q97</b>	505-A2	Acetone	Reformulated Organohalide Pesticides Mix	1 mL
<b>C901T06</b>	DCBP-XH	Toluene	Decachlorobiphenyl Stock Standard	1 mL
<b>C901T80</b>	PCB-M1	Hexane	Aroclor Mix 1	1 mL
<b>C901T82</b>	PCB-M2	Hexane	Aroclor Mix 2	1 mL
<b>C901X37</b>	TOX-X	Hexane	Toxaphene	1 mL

**Method 521**

*EPA 521: Determination of Nitrosamines in Drinking Water by Solid Phase Extraction and Capillary Column and Solid Phase Extraction and Capillary Column Gas Chromatography*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C992F95</b>	521-A	Methylene Chloride	—	1 mL

**Method 525**

*EPA 525.2: Determination of Organic Compounds in Drinking Water (LSE, GC/MS)*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C901L01</b>	5252-I	Acetone	Internal	1 mL
<b>C901L12</b>	5252-S	Acetone	Surrogate	1 mL
<b>C901K95</b>	5252-A	Acetone	Semi-Volatile Organics Mix A	1 mL
<b>C901L04</b>	5252-PA	Acetone	Organochlorine Pesticides Mix A	1 mL
<b>C901L05</b>	5252-PB	Acetone	Organochlorine Pesticides Mix B	1 mL

**Method 535**

*EPA 535: Measurement of Chloroacetanilide and other Acetamide herbicide degradates in drinking water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)*

Thomas No.	Mfr. No.	Matrix	Standard Type	Pkg. Size
<b>C992F97</b>	535-A	Methanol	6 Compound Standard	1 mL
<b>C992G07</b>	535-S	Methanol	500 ug/ml Dimethachlor ESA	1 mL



For a complete listing of Chemicals that include **Reagents, Buffers, Standards, Solvents, Media, and more**, visit [thomassci.com/chemicals](http://thomassci.com/chemicals)





For many years, GFS Chemicals has provided analytical chemists with many specialized solutions for environmental analysis. GFS supplies standardized oxidants and reductants, metal and common anion standards, standards and acids, bases and buffers, ICP and AA standards, pollution and environmental multi-element kits, ultra pure salts useful as matrix modifiers and ionization buffers.

## Ammonium Chloride

99.5%, cooling baths, buffer solutions

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995F50	12502	ACS	2.5 kg

## Color APHA

500 Color Standard

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997F90	24502	—	500 mL

## Potassium Hydrogen Phthalate

99.95-100%, (KHP) primary standard for acid-base titrations

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995B55	60001	ACS	500 g

## Potassium Iodide

99%, phenols, reducing agent

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H15	61002	—	500 g

## Potassium Phosphate Dibasic

98%, buffering agent

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995G74	61901	ACS	500 g

## Sodium Hydroxide

97%, caustic soda, chemical base

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H82	67802	ACS	2.5 kg

## Sodium Nitroferricyanide dihydrate

99%, used to detect organic compounds

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995H97	68401	—	250 g

## Sodium sulfate, anhydrous

99%, 10-60 mesh granular, Total Petroleum Hydrocarbons (TPH)

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995J19	69301	ACS	500 g

## Stannous Chloride

98-103%

Thomas No.	Mfr. No.	Grade	Pkg. Size
C995J43	70502	—	500 g

**AMCO Clear®** is an EPA approved primary standard for calibration of turbidity sensors that is safe, non-toxic and disposable. It is easy-to-use with no dilution or resuspension, and it is available in a wide range of values.

It is NIST traceable to particle size/distribution and optical density, and its inherent stability means it does not settle from suspension. It has a guaranteed one year shelf life even if you've opened the bottle and happened not to have recapped it tightly.

The convenient submicron polymer suspensions are non-toxic primary calibration standards approved by the US EPA for drinking water analysis for turbidity.

AMCO Clear® is the unique, non-toxic low-level turbidity standard that can reliably read from 0.02 NTU to 10,000 NTU every time.

## AMCO CLEAR® Calibration Kit, for HACH 2100N/AN

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N81	85551	—	250 mL

## AMCO CLEAR® Calibration Kit, for HF MICRO 100

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N85	85555	—	250 mL

## AMCO CLEAR® Calibration Kit, for LaMotte 2020WE

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997H36	85781	—	250 mL

## AMCO CLEAR® Turbidity Standard, 0.0 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C000N74	85003	—	250 mL

## AMCO CLEAR® Turbidity Standard, 1.0 NTU

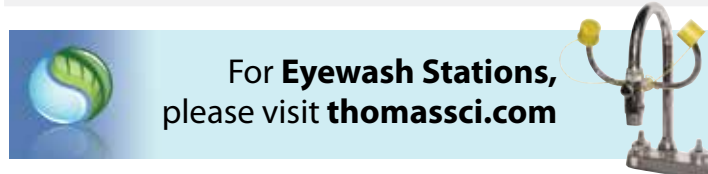
Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D18	85035	—	250 mL

## AMCO CLEAR® Turbidity Standard, 10 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D22	85064	—	250 mL

## AMCO CLEAR® Turbidity Standard, 20 NTU

Thomas No.	Mfr. No.	Grade	Pkg. Size
C997D24	85070	—	250 mL





## Buffers

pH control buffers for managing reactions during analysis

- Reference calibration buffers with consistent specifications across all pH ranges
- NIST traceable
- No mercury or formaldehyde compounds used as preservatives
- No chromium compounds used as colorants in RICCA buffers resulting in easier disposal

### Acetate Buffer

for Iron Analysis (Phenanthroline Method)

Thomas No.	Mfr. No.	Pkg. Size
<b>C027R03</b>	60-32	1 L

### Buffer, Reference Standard, pH 4.00 ± 0.01

at 25°C (Color Coded Red)

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R50</b>	1501-16	500 mL

### Buffer, Reference Standard, pH 7.00 ± 0.01

at 25°C (Color Coded Yellow)

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R56</b>	1551-16	500 mL

### Buffer, Reference Standard, pH 10.00 ± 0.01

at 25°C (Color Coded Blue)

Thomas No.	Mfr. No.	Pkg. Size
<b>4120R62</b>	1601-16	500 mL

### Phosphate Buffer Solution

for Chlorine Determination (DPD Methods)

Thomas No.	Mfr. No.	Pkg. Size
<b>C585N53</b>	5805-32	1 L

## Reagents and Standards

- Large product offering for use in water and solid waste analysis
- Turbidity Standards ranging from 0 to 4,000 NTU
- Reagents for Water Hardness testing, Residual Chlorine, Total Organic Carbon (TOC), Biochemical Oxygen Demand, and Dissolved Oxygen analysis
- Large selection of standardized Titrants for Alkalinity/Acidity, and other analyses; accompanying indicators available
- Vast selection of Ion Selective Electrode standards ranging from 0.1 to 10,000 ppm, Ionic Strength Adjustors, and Electrode filling and Storage solutions
- Environmental Testing Solutions for ORP, Hardness, Nitrogen (Ammonia/Nitrite/Nitrate), Phosphate and Chloride

### COD Standard

1 mL = 0.3 mg Chemical Oxygen Demand (300 ppm COD)

Thomas No.	Mfr. No.	Pkg. Size
<b>C998G74</b>	2228-16	500 mL

### Color Standard, APHA

Hazen (Platinum-Cobalt)

Thomas No.	Mfr. No.	Pkg. Size
<b>C199V32</b>	223-16	500 mL

### EDTA Titrant

0.0100 Molar (M/100)

Thomas No.	Mfr. No.	Pkg. Size
<b>C317W92</b>	2700-32	1 L

### Fluoride Standard

1 mL = 0.1 mg F<sup>-</sup>, 100 ppm F<sup>-</sup>

Thomas No.	Mfr. No.	Pkg. Size
<b>C344C08</b>	3171-16	500 mL

### Hydrochloric Acid

1.00 N

Thomas No.	Mfr. No.	Pkg. Size
<b>C395N35</b>	3700-5	20 L

### Iodine

0.100 Normal

Thomas No.	Mfr. No.	Pkg. Size
<b>C998M77</b>	4000-1	4 L

### Phenylarsine Oxide (PAO) Titrant

0.00564 Normal, Stabilized

Thomas No.	Mfr. No.	Pkg. Size
<b>C581D28</b>	5750-1	4 L

### TCLP Extraction Fluid

Thomas No.	Mfr. No.	Pkg. Size
<b>C998Y97</b>	8377-5	20 L

### Turbidity Standard, Primary Standard Stock Formazin Suspension

4000 NTU (Nephelometric Turbidity Units)

Thomas No.	Mfr. No.	Pkg. Size
<b>C998Z65</b>	8830-32	1 L



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*(continued)*

## Water Hardness Buffer

*with Magnesium EDTA*

Thomas No.	Mfr. No.	Pkg. Size
<b>C865D29</b>	9200-16	500 mL

## Water Hardness Indicator

Thomas No.	Mfr. No.	Pkg. Size
<b>C311W05</b>	9300-4	120 mL

## Spectroscopy Standards

- AA/ICP Standards are made from high-purity solutes and solvents
- AA Standards are available in 1,000 ppm (mg/L)
- ICP Standards are available in 1,000 and 10,000 ppm (mg/L)
- ICP Standards include all elements required by the Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) plus many other elements
- QC, GFAA, and CVAA standards available
- Solutions for instrument maintenance
- Standards are tested against NIST Standards where suitable materials exist
- ICP Standards are packaged with their Certificate of Analysis
- Certificates of Analysis for ICP Standards detail analytical data for 69 trace level elements and impurities
- ICP Standards are made from ultra high purity starting materials

## Arsenic AA Standard

*1 mL = 1 mg As (1,000 ppm As)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C047C43</b>	AAS1KN-100	100 mL

## Calcium AA Standard

*1 mL = 1 mg Ca (1,000 ppm Ca)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C998F67</b>	ACA1KH-100	100 mL

## Lead AA Standard

*1 mL = 1 mg Pb (1,000 ppm Pb)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C442A73</b>	APB1KN-100	100 mL

## Sodium AA Standard

*1 mL = 1 mg Na (1,000 ppm Na)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C703Q28</b>	ANA1KW-100	100 mL

## Calcium AA Standard

*1 mL = 1 mg Ca (1,000 ppm Ca)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C998F67</b>	ACA1KH-100	100 mL

## Lead AA Standard

*1 mL = 1 mg Pb (1,000 ppm Pb)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C442A73</b>	APB1KN-100	100 mL

## Sodium AA Standard

*1 mL = 1 mg Na (1,000 ppm Na)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C703Q28</b>	ANA1KW-100	100 mL

## Iron ICP Standard

*1 mL = 1 mg Fe (1,000 ppm Fe)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C417Y12</b>	PFE1KN-100	100 mL

## Magnesium ICP Standard

*1 mL = 1 mg Mg (1,000 ppm Mg)*

Thomas No.	Mfr. No.	Pkg. Size
<b>C467N92</b>	PMG1KN-100	100 mL

## Conductivity Standards

- Wide range of Conductivity Standard concentrations, from 5  $\mu\text{mho/cm}$  to 400,000  $\mu\text{mho/cm}$
- Manufactured to tightest market specifications of  $\pm 0.5\%$  or less
- Standards are NIST traceable, and many of our Conductivity
- Standards can also be used as Total Dissolved Solids standards

## Conductivity Standard

*10  $\mu\text{S/cm}$  (10  $\mu\text{mho/cm}$ ) at 25°C, 4.7 ppm as NaCl*

Thomas No.	Mfr. No.	Pkg. Size
<b>C998N97</b>	2236-16	500 mL

## Conductivity/TDS Standard

*100  $\mu\text{S/cm}$  (100  $\mu\text{mho/cm}$ ) at 25°C, 47.2 ppm as NaCl*

Thomas No.	Mfr. No.	Pkg. Size
<b>C997A47</b>	2237-16	500 mL

## Conductivity/TDS Standard

*1 mS/cm (1000  $\mu\text{mho/cm}$ ) at 25°C, 495 ppm as NaCl*

Thomas No.	Mfr. No.	Pkg. Size
<b>C001Y95</b>	2243-16	500 mL

## Potassium Chloride

*0.0100 Molar (M/100), 1412  $\mu\text{S/cm}$  (1412  $\mu\text{mho/cm}$ ) at 25°C*

Thomas No.	Mfr. No.	Pkg. Size
<b>C997C37</b>	5890-32	1 L





### pH Buffer Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
C992A84	PHRED-4	pH 4 Red Standard	250 mL
C992A85	PHRED-4-5	pH 4 Red Standard	500 mL
C992A86	PHRED-4-1L	pH 4 Red Standard	1 L
C992A87	PHRED-4-4L	pH 4 Red Standard	4 L
C992A88	PHRED-4-10L	pH 4 Red Standard	10 L
C992A89	PHYELLOW-7	pH 7 Yellow Standard	250 mL
C992A90	PHYELLOW-7-5	pH 7 Yellow Standard	500 mL
C992A91	PHYELLOW-7-1L	pH 7 Yellow Standard	1 L
C992A92	PHYELLOW-7-4L	pH 7 Yellow Standard	4 L
C992A93	PHYELLOW-7-10L	pH 7 Yellow Standard	10 L
C992A94	PHBLUE-10	pH 10 Blue Standard	250 mL
C992A95	PHBLUE-10-5	pH 10 Blue Standard	500 mL
C992A96	PHBLUE-10-1L	pH 10 Blue Standard	1 L
C992A97	PHBLUE-10-4L	pH 10 Blue Standard	4 L
C992A98	PHBLUE-10-10L	pH 10 Blue Standard	10 L
C996W90	TOCKHP1-5	pH 10 Blue Standard	500 mL

### Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
C000L85	QCP-CAT	Cations Standard	20 mL
C000L91	QCP-CR6	Chromium +6 Standard	20 mL
C000L99	QCP-NUT-2	Complex Nutrients Standard	20 mL
C000L90	QCP-CN	Cyanide Standard	20 mL
C000L92	QCP-DMD	Demand Standard	20 mL
C000L93	QCP-HG	Mercury Standard	20 mL
C000L95	QCP-MIN	Minerals Standard	500 mL
C000M00	QCP-OG-A	Oil & Grease Standard 1	20 mL
C000M01	QCP-OG-W	Oil & Grease Standard 2	250 mL
C000M03	QCP-PHEN	Phenolics Standard	20 mL
C000L98	QCP-NUT-1	Simple Nutrients Standard	20 mL
C000M10	QCP-SLD	Solids Standard	450 mL
C000M12	QCP-TRC	Total Residual Chlorine Standard	10 mL
C000M11	QCP-TMS	Trace Metals Standard	20 mL
C000M13	QCP-TURB	Turbidity Standard	20 mL
C000M14	QCP-WH	Water Hardness Standard	500 mL
C000M02	QCP-PH	pH Standard	20 mL

## Reagents for Water Analysis

Hach® Direct Replacement Water Quality Reagents Same Results Guaranteed, or your money back!

Available for most testing parameters including:

- Ammonia • Chlorine • COD • Copper
- Iron • Manganese • Nitrate • Nitrite
- Molybdate • Phosphate • Silica • Sulfate

**VARIO Powder Pack™ Reagents** from Lovibond® Tintometer® are pre-measured, unit dose in a convenient foil pack. Simply tear open the Powder Pack and pour the reagent into the sample.

We think you will find our Powder Packs to be:

- Easy to Handle – They're 37% larger than the competition's design which makes them easier to handle.
- Easy to Open – Our Powder Packs have a defined "Easy Open" notch that makes it simple to tear open the package.
- Easy to dispense and Pour – They easily create a "V" to allow the user to pour the reagent into the sample. They also have a beveled edge to make sure no reagent gets stuck in the corners!

DPD reagents from Lovibond® Tintometer® have also been specifically formulated to work in Hach® and other manufacturers' test kits, colorimeters and spectrophotometers.



### Aluminum Reagent Set

Method: *Erichrome Cyanide R*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X13	535000	Aluminum Powder Pack Reagent Set, 10 mL	0 - 0.22	100

### Ammonia

Method: *Salicylate*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
C974V07	535600	VARIO Ammonia LR Reagent Set, F5	0 - 2.5	100

### Ammonia Nitrogen

Method: *Salicylate*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X61	535500	Ammonia Nitrogen Reagent Set, 10mL	0 - 0.5	100

### Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X43	531100	Ascorbic Acid Powder Pack	—	100



**Don't forget about your liquid transfer and liquid handling products!**



**Lovibond** *(continued)*

## Chlorine, Free

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X14</b>	530090	DPD Free Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	100
<b>1226X15</b>	530093	DPD Free Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	1000
<b>1226X16</b>	530100	DPD Free Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	100
<b>1226X17</b>	530103	DPD Free Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	1000
<b>1226X18</b>	530110	DPD Free Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	100
<b>1226X19</b>	530113	DPD Free Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	1000

## Chlorine, Total

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X20</b>	530080	DPD Total Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	100
<b>1226X21</b>	530083	DPD Total Chlorine Reagent Powder Packs, 5 mL	Visual Tests 0 - 3.5 mg/L	1000
<b>1226X22</b>	530120	DPD Total Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	100
<b>1226X23</b>	530123	DPD Total Chlorine Reagent Powder Packs, 10 mL	0 - 2.00	1000
<b>1226X24</b>	530130	DPD Total Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	100
<b>1226X25</b>	530133	DPD Total Chlorine Reagent Powder Packs, 25 mL	0 - 5.00	1000

## Copper

*Method: Bicinchoninate*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X36</b>	530300	Copper Reagent Powder Packs, 10 mL	0 - 5	100
<b>1226X37</b>	530303	Copper Reagent Powder Packs, 10 mL	—	1000

## Iron Ferro

*Method: 1, 10-Phenanthroline*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X39</b>	530560	Iron Ferro Reagent Powder Packs, 10 mL	0 - 3	100
<b>1226X40</b>	530563	Iron Ferro Reagent Powder Packs, 10 mL	—	1000

## Manganese

*Method: PAN*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>C974V03</b>	535090	VARIO Manganese LR Reagent Set, F10	0 - 0.7	100

## Manganese

*Method: Periodate Oxidation*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X45</b>	535100	High Range Manganese Powder Pack Reagent Set, 10 mL	0 - 20	100

## Molybdate

*Method: Mercaptoacetic Acid*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1210X22</b>	535450	Low Range Molybdate Powder Pack Reagent Set, 20 mL	0.05 - 5.0 mg/L MoO <sub>4</sub>	100
<b>1226X48</b>	535300	High Range Molybdate Powder Pack Reagent Set, 10 mL	0.03 - 3 mg/L Mo	100
<b>1226X52</b>	535400	High Range Molybdate Powder Pack Reagent Set, 25 mL	0 - 35	100

## Molybdenum

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1226X49</b>	530750	High Range Molybdenum 1 Powder Pack, 10 mL	100
<b>1226X50</b>	530760	High Range Molybdenum 2 Powder Pack, 10 mL	100
<b>1226X51</b>	530770	High Range Molybdenum 3 Powder Pack, 10 mL	100
<b>1226X53</b>	530780	High Range Molybdenum 1 Powder Pack, 25 mL	100
<b>1226X54</b>	530790	High Range Molybdenum 2 Powder Pack, 25 mL	100
<b>1226X55</b>	530800	High Range Molybdenum 3 Powder Pack, 25 mL	100

## Monochlor F Reagent

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1210X06</b>	531810	Monochlor F Reagent, 10 mL	100

## Nitrate

*Method: Chromotropic Acid*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>C974V06</b>	535580	VARIO Nitrate Tube Test Reagent Set	1 - 30	25

## Nitrate

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>1226X57</b>	530973	Nitrite 3 Powder Pack, 25 mL	1 - 30	100
<b>1226X58</b>	530973	Nitrite 3 Powder Pack, 25 mL	—	1000
<b>1226X59</b>	530980	Nitrite 3 Powder Pack, 10 mL	—	100

## Nitrogen, Total

*Method: Persulfate Digestion*

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>C974V04</b>	535550	VARIO Total Nitrogen LR Reagent Set	0.5 - 25	25



Lovibond (continued)

**Phosphate 3 Reagent**

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X65	531550	Phosphate 3 Powder Pack Reagent Set, 10 mL	0 - 2.5	100

**Phosphorous, Reactive (Orthophosphate)**

Method: Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X66	535200	Reactive Phosphorous Reagent Set, 10 mL	0.06 - 5 mg/L	50

**Phosphate, Total**

Method: Acid Digestion / Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X67	535210	Total Phosphate Reagent Set, 10 mL	0.02 - 1.1 P 0.06 - 3.5 PO <sub>4</sub>	50

**Phosphate, Total & Acid Hydrolysable**

Method: Acid Digestion / Ascorbic Acid

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X68	535250	Total & Acid Hydrolysable Phosphorous Reagent Set, 10 mL	0.02 - 1.6 P 0.06 - 5 PO <sub>4</sub>	50

**Silica**

Method: Heteropoly Blue

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X69	535690	Low Range Silica Reagent Set, 10 mL	0 - 1.6	100
1226X70	535700	High Range Silica Reagent Set, 10 mL	0 - 100	100

**Silica**

Method: Silicomolybdate

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X71	535900	Ultra High Range Silica Reagent Set, 25 mL	0 - 200	100

**Silica Acid**

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X72	531930	High Range Silica Acid Reagent Powder Pack, 25 mL	100

**Silica Citric Acid**

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X73	531940	High Range Silica Citric Acid Powder Pack, 25 mL	100
1226X74	531943	High Range Silica Citric Acid Powder Pack, 25 mL	1000

**Silica Molybdate**

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X75	531950	High Range Silica Molybdate Powder Pack, 25 mL	100

**Sodium Periodate**

Thomas No.	Mfr. No.	Description	Pkg. Size
1226X47	530660	Sodium Periodate Powder Pack, 10 mL	100

**Sulfate 4 Reagent**

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X76	532150	Sulfate 4 Reagent Powder Pack, 25 mL	0 - 70	100
1226X77	532153	Sulfate 4 Reagent Powder Pack, 25 mL	—	1000
1226X78	532160	Sulfate 4 Reagent Powder Pack, 10 mL	—	100

**COD Reagents**

Lovibond® Tintometer® offers COD reagents in packs of 25 or 150 tubes. As with the Powder Pack reagents, Lovibond® Tintometer® COD vials are compatible with BOTH Lovibond® and Hach® colorimeters and meet US EPA testing requirements!

Mercury-Free versions are also available. (See page 60).

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X26	2420720	Low Range COD Tube Test, 0-150 mg/L	0-150	25 Tubes
1226X27	2420725	Low Range COD Tube Test, 0-150 mg/L	—	150 Tubes
1226X28	2420721	Mid Range COD Tube Test, 0-1,500 mg/L	0 - 1,500	25 Tubes
1226X29	2420726	Mid Range COD Tube Test, 0-1,500 mg/L	—	150 Tubes
1226X30	2420722	High Range COD Tube Test, 0-15,000 mg/L	0 - 15,000	25 Tubes
1226X31	2420727	High Range COD Tube Test, 0-15,000 mg/L	—	150 Tubes

**COD Reagents, Mercury Free**

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X32	2420710	Low Range COD Tube Test, Mercury Free, 0-150 mg/L	0 - 150	25 Tubes
1226X33	2420711	Mid Range COD Tube Test, Mercury Free, 0-1,500 mg/L	0 - 1,500	25 Tubes
C974V08	2420712	High Range COD Tube Test, Mercury Free, 0-15,000 mg/L	0 - 15,000	25 Tubes

**DEHA Reagent**

Method: PPST

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
1226X64	536000	DEHA Reagent Set, 10 mL	20 - 500 ug	100 Tests





(continued)

## DPD Chlorine Reagent Dispenser

Simply squeeze the handle and a perfect dose of DPD reagent (Free or Total, 10 ml size) is dispensed directly into the test sample. Our DPD reagents are a direct replacement for Hach® reagents, so users can get the same results but at a more economical price.

DPD reagents from Lovibond® Tintometer® are US EPA approved for Drinking water analysis. They have also been specifically formulated to work in Hach® and other manufacturers' test kits, colorimeters and spectrophotometers.

Hach is a registered trademark of the Hach Company, Loveland, CO.

Thomas No.	Mfr. No.	Description	Range (mg/L)	Pkg. Size
<b>C995D43</b>	194900	DPD Free Chlorine Reagent, 10 mL	0 - 2.00	250 tests
<b>C995D44</b>	530141	Replacement Reagent, Free Chlorine, 10 mL	0 - 150	250 tests
<b>C995D45</b>	530140	Replacement Reagent, Free Chlorine, 10 mL	—	500 tests
<b>C995D47</b>	194910	DPD Total Chlorine Reagent, 10 mL	0 - 2.00	250 tests
<b>C995D48</b>	530151	Replacement Reagent, Total Chlorine, 10 mL	—	250 tests
<b>C995D49</b>	530160	Replacement Reagent, Total Chlorine, 10 mL	—	500 tests

## Alkaline-Cyanide Reagent Solution

Thomas No.	Mfr. No.	Pkg. Size
<b>1226X42</b>	530620	60 mL
<b>1213K84</b>	530621	100 mL
<b>1213K85</b>	530622	500 mL

## PAN Indicator Solution

Thomas No.	Mfr. No.	Pkg. Size
<b>1226X44</b>	530630	60 mL
<b>1213K86</b>	530631	100 mL
<b>1213K87</b>	530632	500 mL

## Thermo Scientific Nalgene Safety Waste Systems

**Ideal for temporary waste containment**

- Easy-snap safety latch on lid
- Lid/vent system reduces volatile emissions
- Wide mouth funnels for easy pouring
- Safer than glass

HDPE and PTFE material construction resists most common lab solvents, acids and bases. Removable neck screen prevents bar entry into waste bottle. Lid latch prevents spillage if accidentally tipped over and filter prevent fume escape.



Thomas No.	Mfr. No.	Description	Each
<b>9775H56</b>	6379-0004	4 L Container with 5.5 in. Funnel	1
<b>9775H58</b>	6379-0010	10 L Container with 10 in. Funnel	1

# Thermo SCIENTIFIC

## ISE Ionic Strength Adjustors (ISA) & Special Reagents

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4210F41</b>	940909	TISAB II for Fluoride Electrode	1 Gallon (3.8L)
<b>4210F40</b>	940999	TISAB II for Fluoride Electrode	4 x 1 Gallon (3.8L)
<b>4210F37</b>	940911	TISAB III Concentrate for Fluoride Electrode	475 mL
<b>4209N52</b>	951211	ISA For Ammonia Electrode	475 mL
<b>4210E87</b>	841111	ISA for Sodium Electrode	475 mL
<b>4210S45</b>	930710	ISA for Nitrate Electrode	475 mL
<b>1208Q86</b>	951213	Storage Solution for Ammonia Electrode	475 mL
<b>0732H79</b>	941709	Complexion Ionic Strength Adjuster (CISA) for Chloride Electrode	2 x 1 L

## ISE Calibration Standards

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>0732L84</b>	941105	Sodium Standard, 10ppm as Na+	475 mL
<b>4210E90</b>	941107	Sodium Standard, 100ppm as Na+	475 mL
<b>4210N35</b>	941706	Chloride and Sodium Standard, 0.1M NaCl	475 mL
<b>4210N40</b>	941707	Chloride Standard, 100ppm as Cl-	475 mL
<b>0732G69</b>	941708	Chloride Standard, 1000ppm as Cl-	475 mL
<b>4210F30</b>	940907	Fluoride Standard, 100ppm as F-	475 mL
<b>4210B35</b>	922006	Calcium Standard, 0.1M CaCl2	475 mL

## pH Electrode Solutions

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1234J80</b>	810001	Ross pH Electrode Storage Solution	475 mL
<b>1234J81</b>	910004-WA	Electrode Storage Bottle	475 mL
<b>4153W25</b>	910001	Orion pH Electrode Storage Solution	475 mL
<b>4153W50</b>	810007	Orion Reference Fill Solution 3M KCl	50 mL

## pH 4.01 Pink pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L75</b>	910104	pH 4.01 Buffer, Color Coded Pink	475 mL
<b>1226F99</b>	9104CB	pH 4.01 Buffer, Color Coded Pink	19 L
<b>4120L55</b>	910410-WA	pH 4.01 Buffer, Color Coded Pink	10 Pouches
<b>4120L57</b>	910425	pH 4.01 Buffer, Color Coded Pink	25 Pouches

## pH 7.00 Yellow pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L80</b>	910107	pH 7.00 Buffer, Color Coded Yellow	475 mL
<b>1226G00</b>	9107CB	pH 7.00 Buffer, Color Coded Yellow	19 L
<b>4120L60</b>	910710	pH 7.00 Buffer, Color Coded Yellow	10 Pouches
<b>4120L62</b>	910725	pH 7.00 Buffer, Color Coded Yellow	25 Pouches

## pH 10.01 Blue pH Buffer

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>4120L85</b>	910110	pH 10.01 Buffer, Color Coded Blue	475 mL
<b>1226G02</b>	9110CB	pH 10.01 Buffer, Color Coded Blue	19 L
<b>4120L66</b>	911010	pH 10.01 Buffer, Color Coded Blue	10 Pouches
<b>4120L67</b>	911025-WA	pH 10.01 Buffer, Color Coded Blue	25 Pouches

## All In One pH Buffer Kit

Thomas No.	Mfr. No.	Description	Pkg. Size
<b>1233M21</b>	910199	pH 4.01, 7.00 & 10.01, Electrode Storage Solution, & Electrode Storage Bottle	475 mL



### Ascorbic Acid

Reagent for aluminum determination by the aluminon method (Method 8012), manganese determination by the PAN method (Method 8149) and total chelant determination by titration (Method 8350)

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E28	1457799	Ascorbic Acid Powder Pillows	100

### BOD Nutrient Buffers

For preparation of BOD5 dilution water

Thomas No.	Mfr. No.	Description	Pkg. Size
3241A14	1416066	BOD Nutrient Buffer Pillows, 300 mL	50
3241A16	1486166	BOD Nutrient Buffer Pillows, 3 liter	50
3241A17	1486266	BOD Nutrient Buffer Pillows, 6 liter	50

### BOD Standard Solution

For accuracy checks in Biochemical Oxygen Demand (BOD) determinations

Thomas No.	Mfr. No.	Description	Pkg. Size
3241A19	1486510	BOD Standard Solution, 300 mg/L, 10-mL Voluette® Ampules	16

### COD Digestion Vials

For determination of low range Chemical Oxygen Demand (COD) by the Reactor Digestion method. US EPA approved for wastewater analysis using Hach Method 8000. Range: 3-150 mg/L COD.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241E18	2125815	COD Digestion Vials, Low Range	150
1220C19	2125915	COD Digestion Vials, High Range	150

### DPD Free & Total Chlorine Reagents

For free chlorine determination by the DPD Free Chlorine method. US EPA accepted for reporting for drinking water analysis using Hach Method 8021. Range: 0.02 to 2.00 mg/L Cl<sub>2</sub>. Sample Size: 10 mL.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241D45	2105528	DPD Free Chlorine Reagent Powder Pillows, 10 mL	1000
9866Q01	2105569	DPD Free Chlorine Reagent Powder Pillows, 10 mL	100
3241D48	2105628	DPD Total Chlorine Reagent Powder Pillows, 10 mL	1000
9866N97	2105669	DPD Total Chlorine Reagent Powder Pillows, 10 mL	100
3241D52	1407028	DPD Free Chlorine Reagent Powder Pillows, 25 mL	1000
9866Q59	1407099	DPD Free Chlorine Reagent Powder Pillows, 25 mL	100

### FerroVer® Iron Reagents

For determination of Iron by the 1, 10 phenanthroline method. US EPA approved method for reporting wastewater analysis using Hach Method 8008

The FerroVer method recovers total soluble ferrous and ferric iron, as well as complexed iron compounds and many insoluble iron forms. Range: 0.02 to 3.00 mg/L.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q15	2105769	FerroVer® Iron Reagent Powder Pillows, 10 mL	100

### Lauryl Tryptose (with MUG) Broth Tubes

Selectivity: Total Coliform Bacteria and Escherichia coli

Lauryl Tryptose Broth with MUG provides a selective medium which is used for enumeration of E. coli and other coliform bacteria in water using the Most Probable Number (MPN) method.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241T61	2182115	Lauryl Tryptose (w/MUG) Broth Tubes, Concentrated	15
3241T62	2217515	Lauryl Tryptose (w/MUG) Broth Tubes, Single Strength	15

### m-FC with Rosolic Acid

m-FC with rosolic acid is used to detect and enumerate fecal coliforms in wastewater using the membrane filtration method

Thomas No.	Mfr. No.	Description	Pkg. Size
9866H59	2428550	m-FC with Rosolic Acid, 2 mL plastic ampules	50

### NitraVer® 5 Nitrate Reagent

For determination of MR and HR nitrate by the NitraVer® 5 cadmium reduction method

Hach methods 8039 and 8171 Range: 0.1 to 10.0 or 0.3 to 30.0 mg/L as nitrate-N.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q19	2106169	NitraVer® 5 Nitrate Reagent Powder Pillows, 10 mL	100

### Nitrification Inhibitor for BOD

Formula 2533™, TCMP

Thomas No.	Mfr. No.	Pkg. Size
3241A28	253334	500 g
3241A29	253335	35 g

### NitriVer® 3 Nitrite Reagent

For determination of low range nitrite by the NitriVer® 3 diazotization method

USEPA accepted for reporting wastewater analysis using Hach Method 8507. Range: up to 0.30 mg/L NO<sub>2</sub>-N.

Thomas No.	Mfr. No.	Description	Pkg. Size
3241J68	2107169	NitriVer® 3 Nitrite Reagent Powder Pillows, 10 mL	100



(continued)

## Nitrogen-Ammonia Standard Solution

For accuracy checks in ammonia nitrogen determinations

Thomas No.	Mfr. No.	Description	Pkg. Size
3241N11	189149	Nitrogen-Ammonia Standard Solution, 1 mg/L	500 mL
3241D22	2406549	Nitrogen-Ammonia Standard Solution, 100 mg/L	500 mL
3241B83	2354153	Nitrogen-Ammonia Standard Solution, 1000 mg/L	1 L

## Phenol Red Indicator Solution

Phenol Red Indicator Solution. Standardized for colorimetric pH determination.

Color range: pH 6.0-8.5. Bottle/50 mL spec. grade

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q37	2657512	Phenol Red Indicator Solution, Spec. Grade	50 mL

## PhosVer® 3 Phosphate Reagent

For determination of reactive (ortho) phosphate (phosphorus)

by the PhosVer® 3 ascorbic acid method

US EPA accepted for reporting for wastewater analysis using Hach Method 8048, Phosphorus, Reactive. Also used in acid-hydrolyzable and total phosphorus determination, after appropriate digestion.

Thomas No.	Mfr. No.	Description	Pkg. Size
9866Q39	2106069	PhosVer® 3 Phosphate Reagent Powder Pillows, 10 mL	100

## Test Strips

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E29	2745050	Free & Total Chlorine Test Strips, 0-10 mg/L	50
1223H13	2745650	pH Test Strips, 4-9 pH units	50
1224X03	2755250	5 in 1 Water Quality Test Strips	50
1222V77	2755325	Ammonia (Nitrogen) Test Strips, 0-6.0 mg/L	25

## Silicone Oil

SCDB

Thomas No.	Mfr. No.	Pkg. Size
1232E30	126936	15 mL

## Chlorine Reagent Sets

Thomas No.	Mfr. No.	Description	Pkg. Size
1232E29	2745050	Chlorine Test Kit	50
3241D95	2438800	Chlorine (Free and Total) Reagent Sets	1

Traceable® pH Standards, Certified Reference Materials, are 100% compatible with all instruments and probes. Accuracy for the Traceable® Buffers at 25°C is  $\pm 0.010$  pH—the most precise available. Certified Reference Materials meet Federal/State/local agencies' strictest mandates and deliver exact calibration results for any pH meter. Every container is supplied with an individual temperature compensation chart, traceability information, and Traceable® Certificate.



## Traceable® pH Buffer Standard Certified Reference Material (CRM)

Thomas No.	pH	Pkg. Size
1218M88	4.005	473 mL
1218M89	7.000	473 mL
1218M90	7.146	473 mL
1218M91	10.012	473 mL

## Traceable® One-Shot™ pH Buffer Standard Certified Reference Material (CRM)

Thomas No.	pH	Pkg. Size
1218M92	4.005	100 mL
1218M93	7.000	100 mL
1218M94	7.146	100 mL
1218M95	10.012	100 mL

## Thomas®

## Traceable Conductivity Calibration Standards

Sixteen ounces of liquid for frequent calibration needs

- Highest accuracy available
- Units labeled (micromhos/millisiemens, ohms, parts per million/TDS)
- Includes step-by-step calibration instructions and temperature chart
- 100% compatible with all makes of equipment



Thomas No.	Description	Each
1235C71	Standard, Conductivity, Traceable®, 10 mS, NIST/17025 Cert	1
1235C72	Traceable® Conductivity Standard, 100 mS, NIST/17025 Cert	1
1235C73	Traceable® Conductivity Standard, 1,000 mS, NIST/17025 Cert	1
1235C74	Traceable® Conductivity Standard, 10,000 mS, NIST/17025 Cert	1
1235D69	Traceable® Conductivity Standard, 1 mS, NIST/17025 A2LA Cert	1
1235D44	Traceable® Conductivity Standard, 5 mS, NIST/17025 A2LA Cert	1
1235D39	Standard, Conductivity, Traceable®, 10 mS, NIST/17025 A2LA Cert	1
1235D40	Traceable® Conductivity Standard, 100 mS, NIST/17025 A2LA Cert	1
1235D41	Traceable® Conductivity Standard, 1,000 mS, NIST/17025 A2LA Cert	1
1235D45	Traceable® Conductivity Standard, 1,413 mS, NIST/17025 A2LA Cert	1
1235D42	Traceable® Conductivity Standard, 10,000 mS, NIST/17025 A2LA Cert	1
1235D43	Traceable® Conductivity Standard, 100,000 mS, NIST/17025 A2LA Cert	1
1222W07	Conductivity Calibration Standard CRM150k mcms	1
1222W08	Conductivity Calibration Standard CRM200k mcms	1
1222W15	Conductivity Calibration Standard CRM150k mcms ind	1
1222W16	Conductivity Calibration Standard CRM200k mcms ind	1



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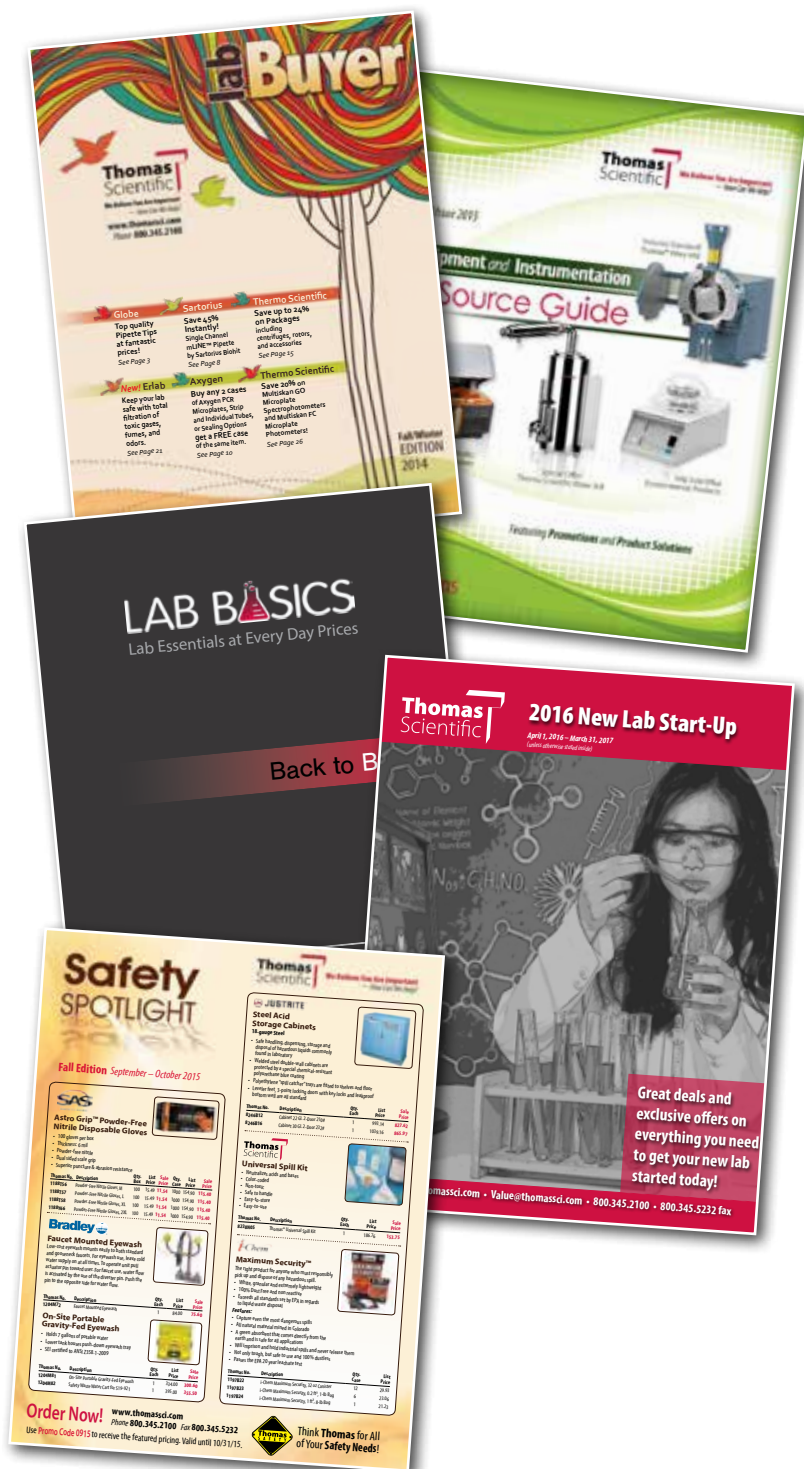
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