thermoscientific

Startup to finish we're there for you

Everything you need for your Food and Beverage Lab







Thermo Scientific™ Food Testing and Analysis Products

Samco[™] Transfer Pipettes

Built-in bulb prevents plugging

- Built-in bulb that eliminates the need for plugging, packaging and autoclaving
- Shatterproof, nontoxic polyethylene
- · Low-affinity surface reduces loss of cells and valuable proteins due to binding
- Slurry pipettes for viscous samples

Nalgene[™] HDPE Bottles

Certified sterile and ready-to-use

- Semi-rigid, translucent all-purpose bottle
- Designed for long-term, demanding lab use
- Excellent chemical resistance

Capitol Vial[™] Low- and High-profile Containers with Lock-Seal

Lock-Seal Tab

- Ideal for storing and packaging a wide variety of liquids and solids
- Lock seal tab prevents spills and leaks

Capitol Vial[™] Low-profile Flip Top Containers

FDA-compliant

- Ideal for economical storage or packaging of a wide range of liquids and solids
- 100% FDA compliant food grade polypropylene
- Aseptic, airtight and leak resistant construction with permanent hinge lid
- Shoulderless, liner-less containers
- Available in a variety of colors or clear

Cimarec+[™] Digital Hotplate Stirrer

Advanced technology. Flexible, robust design

- Temperature adjustable in 1 degree increments
- Hot Top warning system protects from accidental burns with prominent display when heating surface is above 50°C (122°F)
- Top plate choices in ceramic or aluminum

Arctic[™] A25 Refrigerated Bath Circulator

High throughput and workflow efficiency

- Temperatures ranging from -25° to +200°C
- Maximum bath volume of 12 liters
- Stainless-steel reservoir can be configured with different cooling capacities, temperature ranges and volumes to meet your specific application

Barnstead[™] Water Purification System

Exceptional lab water systems without the attitude

- Feed water monitoring protects against crucial fluctuations that compromise purity
- Choose from compact systems with numerous mounting options and flexible dispensing features
- Mix and match systems to achieve specific water purity and volumes as required by your unique application and water source



- These disposable syringes feature two-part construction using polypropylene barrels and polyethylene plungers
- No need for rubber or synthentic plunger gaskets, and requires no silicone or oil lubricant in the barrel

National Target2[™] Syringe Filters Ensure clean samples

- Protects delicate instruments and prolongs column life
- Sizes and membrane types to meet any application need
- Target2 Nylon Syringe Filters are a good choice for most general laboratory filtration

HyperSep[™] Dispersive SPE Centrifuge Tubes

High recovery, accurate results

Offers a convenient and effective approach for extraction and clean-up of pesticide residues in food and other complex matrices



- High sample throughput
- Low solvent and glassware usage

Savant[™] SpeedVac[™] Vacuum Concentrators

Convenience, Safety and Flexibility

- Simplicity Operating our Savant SpeedVac concentrators is easy – a single program is all you need to support your DNA/RNA applications
- Sample Protection DNA/RNA samples require careful handling during the denaturing process
- 1 1 1 NA 120 OP
- Compact, Easy-to-Use Design Our DNA concentrators are the smallest integrated benchtop units available

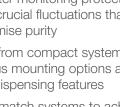
MaxQ[™] 6000 Stackable Incubated/ **Refrigerated Digital Shaker**

Save valuable lab space

- Save space by stacking units two-high on the floor
- Sample storage and orbital shaking with intuitive, easy-to-use digital controls













• Lower reagent costs







Vituoso[™] Vial Identification System

Ensures accurate sample identification and increases productivity

- Error-free option to manual vial labeling
- Accurate vial identification and reliable data
- Touch screen and network capabilities allow you to transfer text, graphics, barcodes, and logos directly to your vials

Nalgene Beakers

Precise and efficient pouring

- Single spout design
- Easy-to-read silk-screened graduations
- Wide variety of plastics to suit your laboratory requirements





Nalgene PPCO Graduated Cylinders

No meniscus to confuse readings

- Dispense liquids easily with simple to read, molded-in graduations that won't rub off
- Generous pour spout
- Excellent chemical and breakresistance



Heraeus[™] Benchtop Centrifuges

Fits in. Stands out.

Featuring innovative Thermo Scientific™ technologies including:

- Push-button security and application flexibility with Auto-Lock[™] rotor exchange
- Outstanding ergonomics and performance by Fiberlite[™] carbon fiber rotors
- One-handed sample protection from ClickSeal[™] biocontainment lids







Nalgene Waste Container with Lid

Economic alternative to stainless-steel tanks

- Resists stress cracking and increase tolerance to many organic chemicals
- Secure, friction-fit closure
- Molded-in hangrips
- Meets OSHA Standard 29 CFR Part 1910.1030 for use as protection against bloodborne pathogens

Nalgene and Nunc[™] External-Threaded **Cryogenic Tubes**

High quality, reliable sample storage

- Volumes from 0.5mL to 15.0mL
- Sterility to SAL 10⁻⁶
- Made from non-cytotoxic and nonmutagenic raw materials
- Compatible with standard system cryoboxes and racks
- CE marked

UHPLC and HPLC Columns

Built for sensitivity, throughput and reproducibility

- Large portfolio of high-resolution, high-efficiency columns for separations of foods and beverages
- Complete selection of reversed-phase columns
- Stationary phases include silica, polymer and specialty phases

Nalgene IP2 Bottles

Resists splitting and punctures

- Wide mouth for easy filling
- Store dry or liquid materials
- Ideal as inner containers for customers who design, assemble and certify their own combination packaging

Nalgene Analytical Filters

Reliable and Consistent Analytical Filterware

- Ability to easily retrieve filter membranes for growth and analysis
- Engineered to deliver best-in-class performance for testing of water, food and beverage, raw materials and finished product

TSX Undercounter Refrigerators

The only undercounter lab-grade refrigerator with redundant cooling

- High storage capacity
- Variable speed control using thermoelectric devices in place of compressors, provides ideal conditions for the most demanding applications
- Designed to meet UL and CE criteria for safety and performance



Nalgene Sterile Single-Use PETG Flasks

Ideal solution for scaling up your suspension cultures

- Sterile and single use: Reduce contamination risk
- Robust and break resistant: Increase personal safety
- Collapses when autoclaved: Reduce biohazardous waste
- Graduated for guick volume assessment

TraceGOLD Capillary GC Columns

Built for sensitivity, throughput and reproducibility

- Suitable for pesticides and other highly active components
- Ultra low bleed is essential for GC-MS. gives greater sensitivity and extended column lifetime
- Superior inertness provides excellent peak shape and sensitivity

Orion[™] Portable Benchtop Meters and Electrodes

The measure of confidence

• Easy meter operation assured with on-screen text prompts, menuspecific function keys and a multilanguage interface



- Thermo Scientific[™] AUTO-READ[™] locks in the stable reading on your screen, ready indicator alerts
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values and calibration editing to fix individual points without a full recalibration

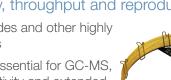




















An exceptional line of technologies and laboratory solutions to enable your smart lab

Our commitment: to help you attain the maximum value from our highquality laboratory solutions. Every Thermo Scientific product is backed by our worldwide customer support and service. We are always ready to help you gain the maximum advantages from our high-quality laboratory solutions.

Microbiology Food Testing

Our microbiology solutions bring together the best in food quality and safety testing. With our industry insight, scientific expertise and access to market-leading technologies that enable us to quickly develop new products and protocols, we can help you remain adaptive, responsive and competitive.



Lab Refrigerators



Thermo Scientific™ Microbiology Food **Testing Products**

Nalgene Erlenmeyer Flasks

No miniscus to confuse readings

- Excellent chemical compatibility
- Shatter-proof construction
- Available in a wide variety of plastics to suit all your laboratory requirements

Nalgene Volumetric Flasks

Lighter in weight than glass

- Excellent chemical resistance
- Calibrated "To Contain" and "To Deliver" at 20°C
- Available in polypropylene copolymer and polymethylpentene

Thermal Mixers

Versatile mixer with variable speed and temperature control

- Shaking speed: 250 to 1400 rpm
- Temperature control range : +15°C to 100°C; stability: ±0.1°C
- Choice of 5 interchangeable blocks
- Heating/Cooling and mixing functions can be run independently of each other

Nalgene Super Versi-Dry Surface Protectors

Absorbs spills and cushions breakable items

- Skid- and chemical-resistant; waterproof
- Cloth-like top layer will not fall apart even when wet
- Available in sheets and rolls to fit most any flat surface

Heraeus[™] Microcentrifuges

Safe, powerful, versatile, easy-to-use

- The standard rotor runs 24 tubes in a single row with equalized q-forces for reproducibility, from 1.5 to 2.0 mL tubes to mini-preps and spin columns
- Eliminate the need for adapters with the unique dual row rotor, which holds 18 tubes of both 1.5/2.0 mL and 0.5 mL in the same run
- Maximize your micro-volume capacity with the new 10 x 5 mL rotor with ClickSeal biocontainment lid, separating samples at g-force up to 20,326 x g

VersaCool[™] Refrigerated Circulating Bath

Experience the benefits of going headless

- Energy efficient refrigeration system resulting in lower power consumption and energy costs
- Tool-less, drip-less rack and lid for enhanced safety and faster cleanup
- USB and Bluetooth[™] communications enabling remote operation

TSX Series High-Performance Lab Refrigerators

Designed to maintain temperature uniformity

- Advanced microprocessor temperature control
- Highest quality cabinet construction and alarm systems
- Positive, forced air circulation for uniform temperature and fast door opening recovery

Heratherm[™] Heating and Drying Ovens

Safe, easy and efficient

- Unique door design reduces heat emission and flexible shelving system allows for optimal space utilization
- Temperature uniformity: ± 1.3°C at 150°C
- Automatic audible and visual overtemperature alarm

Environmental Chambers

Meeting your specific needs

- Optimum uniformity and a wide temperature range for easy compliance with regulatory requirements
- Rugged construction and durable shelving for long life
- Broad range of options to create the perfect fit for your applications
- Valuable features for flexibility and cost-effectiveness

Owl[™] Gel Boxes and Power Supplies

Flexibility for your application

- Broad selection of industry-leading gel boxes and power supplies
- Flexibility for your application - Choose from a wide range
- of gel formats, including over 400 different combs and accessories
- Durability Manufactured with industry-leading solventwelded construction

Revco RLE Series Ultra-Low Freezers

Designed to keep your samples safe

- Low peak variation helps ensure sample protection throughout entire cabinet
- Fast door opening recovery in as little as 13 minutes
- 0.93°C steady-state temperature variation over time
- Long warm-up time from -80°C to -50°C in 5 hours
- Four capacities: 300, 400, 500 and 600 2-inch box

Compact Dry Bath/Block Heaters

Increase your lab versatility

- Offering a range of configurations with interchangeable module blocks for a variety of application needs
- Maximum temperature of 130°C
- Available in 1, 2 and 4 block sizes

Nunc Storage Microplates

Ideal choice for storage

- Proteins and DNA will not adhere to polypropylene, allowing for complete sample recovery
- Variety of colors for guick identification of compounds being stored
- Withstands temperatures from -80° to +121°C



































Nalgene Rapid-Flow Filter Units

Superior performance and the last line of defense against contamination

- Rapid-Flow design increases flow rate and throughput due to a support system engineered to work at maximum efficiency
- Range in membrane porosity, including 0.1 micron option for Mycoplasma protection



• 0.2 micron aPES Rapid-Flow filters are STEM CELL TESTED for safe use with stem cell media

Nunclon Sphera Cell Cuture Surface Coating

Supports easy, repeatable growth of spheroid cultures

- Optimize spheroid formation Grow cultures in suspension with lowbinding surface
- Grow 3D cultures Accurately simulate tumor cell progression



• Superior embryoid body formation - Form pluripotent stem cells with minimal spontaneous differentiation

Heratherm Microbiological Incubators

Outstanding temperature stability and uniformity

- Choice of Gravity or Dual Convection with adjustable fan that can be reduced to 0%
- Ambient plus 5°C to 105°C temperature range
- Five sizes available: three benchtop models that are stackable (60L, 100L, 180L) and two floor-standing models with locakable casters (400L and 750L)



Orion Portable and Benchtop Meters and Electrodes

The measure of confidence

- Easy meter operation assured with onscreen text prompts, menu-specific function keys and a multi-language interface
- Thermo Scientific[™] AUTO-READ[™] locks in the stable reading on your screen, ready indicator alerts
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values and calibration editing to fix individual points without a full recalibration







Nalgene Right to Understand Safety Wash Bottles

TSX Ultra-Low Freezers

Cryopreservation Storage

Equipment

Thermo Scientific™ Food Safety and Quality

Finnpipette[™] F1 Pipettes and Tips

Exceptional performance with comfort, redefined

- Volume adjustment is virtually effortless and silent
- Textured adjustment knob and optional grip strip enable a firmer grip

ART[™] Pipette Tips

Fits virtually any pipette

- Low-retention technology for maximum sample recovery
- Complete selection of barrier, non-filtered and specialty tips
- Self-sealing barrier ensures protection

Nalgene Square PETG Media Bottles

Ideal for storage and sampling of APIs and bulk intermediates

- Heat-shrink band around closure and neck for tamper-evident seal
- Leakproof bottles and HDPE closures provided
- Sterile and non-pyrogenic

Rockers and Rotators

Maximize your lab's efficiency through reliable precision

- Digital Speed Control: 5-100rpm
- Easy to adjust tilt angle: 7° to 13°
- Compact design is ideal for placing in incubators (non-CO₂), chambers and refrigerators (up to 60°C)

Nunc 15 and 50mL Conical Centrifuge Tubes

Increased traceability

- Increase traceability of samples with one of the largest writing areas on the market
- Sterile
- Environmentally friendly recyclable plastic rack

Automation Tips Achieve accuracy and precision

- Quality controlled for reliable and consist performance for many automated pipette systems
- Tips designed for Tecan[®], Beckman, PerkinElmer/Packard, Eppendorf epMotion[©] Automated Pipette Systems and many others

MaxQ[™] Shakers

Reliable versatility to move your research forward

- Reliability Our outstanding drive mechanisms provide continuous 24hour operation and allow you to shake large and uneven loads, smoothly and uniformly
- Simplicity Easy-to-use controls are designed to precisely adjust individual displays for temperature, speed and time
- Flexibility Benchtop, floor and stackable models are available fully equipped with incubation, refrigeration and water bath options to accommodate any application and budget

Precision[™] Water Baths

A new generation to support your science

- Precision is Compact Save valuable bench space with a smaller footprint on general purpose baths, compared to previous models
- Precision is Effortless Automatically preheat and turn off your bath for efficient work scheduling with new auto-on and auto-off timers
- Precision is Intuitive Simplify parameter setting and monitoring with new icon-based controller interface

Nalgene Carboys & Jerricans

_arge volume storage

- Leakproof to ensure contained materials are not lost during storage or transport
- Sterile, single-use options to eliminate the need for in-house packaging and sterilization
- Sanitary fitting options for easier cleaning validations and processes
- Validation binders and forced extraction studies to support regulatory compliance needs

National[™] SureStop[™] and Chromacol[™] SureStop[™] Vials and Closures

Innovative vial design, unmatched performance

- Designed with Advance Vial Closure System technology – providing a definite stop point when screwing the cap on, preventing overtightening
- Sealing and performance characteristics of a crimp top vial with the versatility of a threaded vial

Nalgene Right To Understand Safety Washbottles

Globally Harmonized

and understandable labeling

- Prevents chemical accidents by clear
- · Self-venting wash bottles eliminate risk of bottles selfdispensing

Nalgene Economy Washbottles

Uniform leak-proof service

- Tight fitting draw tube and closure prevents bottl/top separation when squeezing wash bottles
- Designed to dispense through the top with a closure and stem molded in one piece
- Cut back tip allows you to increase flow

Nalgene Cryoboxes

Budget-friendly

- Available in materials ranging from economical chipboard boxes to breakresistant, durable polycarbonate boxes - budget-friendly choices
- Dense storage format available store 169 1mL tubes in a standard cryobox

Nalgene Cryobox Freezer Racks

Convenient cryobox storage

Stainless-steel freezer racks that conventiently store standard cryoboxes and fit most common upright and chest freezers





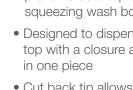
































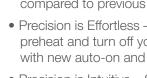












Cryopreservation Storage Equipment

Indefinite sample storage, infinite possibilities

• Extended Hold Times – Unlike mechanical systems, Thermo Scientific LN_a storage solutions are designed to offer consistent temperatures even when electricity is lost



- Low Power Consumption Uses liquid nitrogen, consuming less power than a standard light bulb and providing significant energy savings
- Zero Greenhouse Gases Because LN_a storage depends on the cooling power of naturally sourced nitrogen gas, there are no halogenated hydrocarbon refrigerants used and no greenhouse gas concerns



Designed to meet the highest protection and sustainability standards for ultra-low storage

- -85°C steady-state temperature variation over time
- Best overall temperature uniformity: $< 5.2^{\circ}$ C with door openings, $< 4.0^{\circ}$ C with no door openings
- Long warm-up time from -80°C to -50°C at 5.05 hours









thermo scientific

Ensuring food safety and quality for today's demanding consumers.



Food quality and safety are two of the most challenging issues in the current regulatory environment that are of great concern to today's health-conscious consumers. Whether you are testing for contaminants or developing a new production process, we're here to help. Our knowledgeable employees, innovative products, and an array of quality assurance solutions and educational resources enable you to maintain your focus where it should be — on delivering food products that meet the highest standards of food quality, safety, and authenticity that today's demanding consumers worldwide expect.

For more information, contact your Thomas Scientific rep.

We have access to extensive resources that help ensure food and beverage safety, including:

- Food Analytical Testing
- LIMS for Food & Beverage Labs
- Food Weighing & Inspection
- Food Solutions through Rheology & Extrusion
- Food Authenticity & Labeling
- Food Microbiology Testing
- Test Kits fro Food & Beverage Analysis



800.345.2100 • 800.345.5232 fax PO Box 99 • Swedesboro, NJ 08085 **thomassci.com** • value@thomassci.com



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