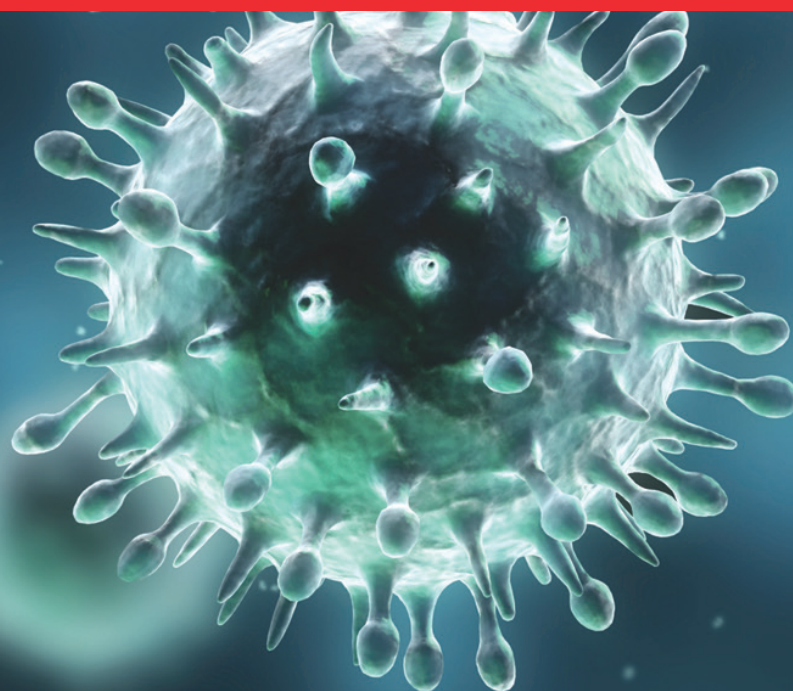
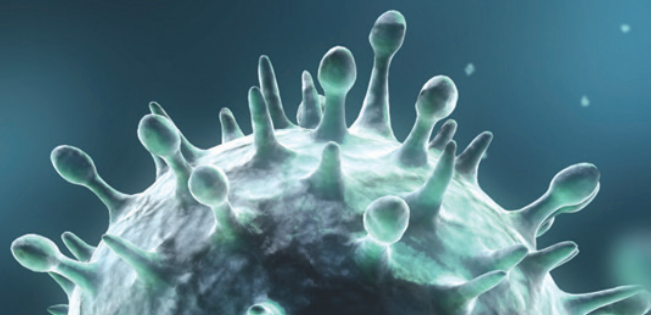


thermoscientific



Startup to finish
we're there for you



Everything you need for your Life Science lab

Thomas
Scientific

ThermoFisher
SCIENTIFIC

Cell Culture

Your next discovery. It offers the promise of hope and healing and improving the quality of life for many. Delivering that discovery faster is your goal. It's our goal too. That's why we offer a total solution — supporting you across every stage of cell culture research.

Growth and Passage

- Serological Pipettes
- S1 Pipet Fillers
- Specialty Surface Flasks
- EZFlip Conical Tubes
- CO₂ Incubators
- Polypropylene Dishes and Multidishes
- EasYFlasks
- Finnpiquette F1 Pipettes and Tips
- Edge Plate 2.0
- Cell Factory Systems

S1 Pipet Fillers
Fatigue-free pipetting

Nunc Serological Pipettes
Controlled sampling



Heraeus Benchtop Centrifuges

Fits in your lab and stands out with innovative technologies

Nunc EasYFlask

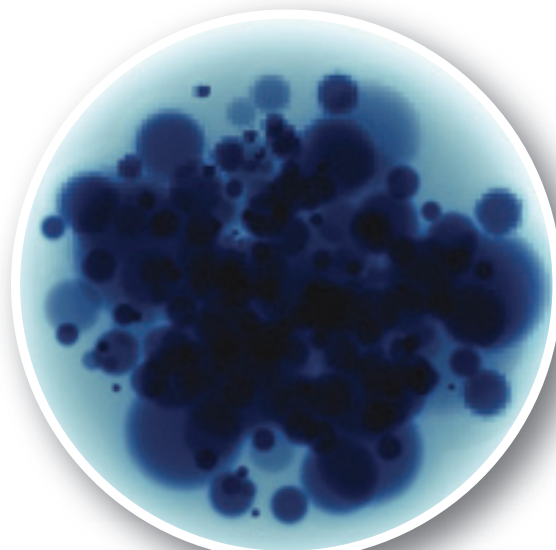
Enhance cell attachment, growth and differentiation



Nunc Conical Centrifuge Tubes
More volume, access and space for decanting

Growth and Passage

Storage



Revco High-Performance Lab Refrigerators

Designed to protect media and reagents

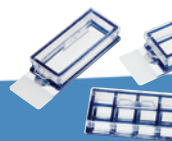
CO₂ Resistant Bottle Roller
Maximize valuable bench space



Nalgene and Nunc External-Thread Cryogenic Tubes
High quality, reliable sample storage



Nunc LabTek Chambered Coverglass
Ultimate flexibility for cell imaging analysis



Harvest

- Specialty Surface Flasks, Plates and Dishes
- Cell Scrapers
- Centrifuges
- Serological Pipettes
- PCO Conical Centrifuge Tubes - 15 and 50 mL
- aPES and SFCA Filter Units

Characterization and Analysis

- Finnpiquette F1 Pipettes and Tips
- Edge Plate 2.0
- Chamber Slides
- Microplate Readers
- Microwell Plates
- Microplate Dispensers
- Smart Digest

Storage

- Refrigerators
- Freezers
- Cryoboxes and Racks
- Cryotubes

Heracell VIOS CO₂ Incubator
Achieve your next breakthrough

Nalgene Rapid-Flow Filter Units

Engineered for maximum efficiency



Nunc Cell Scrapers

Adjustable Blade



Barnstead Water Purification Systems

Exceptional lab water systems without the attitude



Multidrop Combi Microplate Dispensers

Ultimate versatility for reagent dispensing



Nunclon Sphera Cell Culture Surface Coating



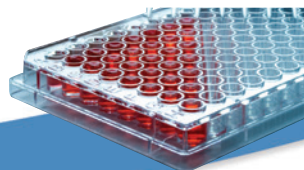
Harvest

Characterization and Analysis



Finnpipette F1 Pipettes and Tips

Exceptional performance with comfort redefined



Nunc Edge 2.0 96-well Plate

Uniquely designed to prevent edge effect



SMART Digest Kits

A significant advance in sample preparation

Cell Culture Products

Nunc 15 and 50mL Conical Centrifuge Tubes



More volume, access and space for decanting

Thermo Scientific™ Nunc™ Conical Centrifuge Tubes

- Environmentally-friendly recyclable plastic rack
- Increased traceability with largest writing area
- Leak-proof to protect your samples

Nunc Cell Scrapers

Adjustable blade



Thermo Scientific™ Nunc™ Cell Scrapers

- Sterile
- Non-pyrogenic
- Adjustable blade

Nunc Serological Pipettes

Controlled sampling



Thermo Scientific™ Nunc™ Serological Pipettes

- Sterility assurance level (SAL) of 10^{-6}
- Certified non-pyrogenic
- Bold graduations with easy-to-read scale markings
- Color-coded for ease in sorting and selection
- Full range of size and packaging options
- Use sleek shortie pipettes for easy maneuvering when space in your lab is tight

S1 Pipet Fillers

Fatigue-free pipetting



Thermo Scientific™ S1 Pipet Fillers

- Ergonomically designed for fatigue-free pipetting
- Lightweight
- Cordless
- Heavy-Duty rechargeable lithium-ion battery provides three times longer operation between charges than typical units
- For use with graduated and volumetric glass and plastic serological pipets

Nunc Cell Culture EasYFlasks

Enhance cell attachment, growth and differentiation



Thermo Scientific™ Nunc™ EasYFlask™

- Cell culture treated with proprietary Nunclon™ Delta surface for optimal adhesion and cell growth
- Angled neck and wide opening allows easy access to the growth surface by pipettes or cell scrapers

Heraeus Benchtop Centrifuges

Fits in. Stands out.



Thermo Scientific™ Heraeus™ Benchtop Centrifuge

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

Heracell VIOS CO₂ Incubator

Designed to achieve your next breakthrough

Thermo Scientific™ Heracell™ VIOS™ Series Incubators

- Better solutions for optimal cell growth – Revolutionary Thermo Scientific™ THRIVE™ active airflow technology delivers homogeneous growth conditions fast, avoiding unwanted sample variation
- Complete contamination control – Proven protection from every direction including ISO 5 HEPA air filtration, on-demand high-temperature sterilization, and easy to maintain copper
- Enhanced simplicity – Designed to focus on convenience, allowing you to spend more time on your research and less time managing your incubator



Barnstead Water Purification System

Exceptional lab water systems without the attitude

Thermo Scientific™ Barnstead™ Water Purification Systems

- Delivers pure and ultra-pure water with ease and flexibility
- Ergonomic designs improve control and put advanced features at your fingertips
- 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



Nalgene Rapid-Flow Filter Units

Superior performance and the last line of defense against contamination

Thermo Scientific™ Nalgene™ Rapid-Flow™ Filter Units

- Rapid-Flow design increases flow rate and throughput due to a support system engineered to work at maximum efficiency
- aPES membrane is ideal for cell culture media and buffers
- 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



CO₂ Resistant Bottle Roller

Maximize bench space with compact design

Thermo Scientific™ CO₂ Resistant Bottle Roller

- Anti-corrosive and wear resistant construction enables use in humid and CO₂ environments
- Adjustable speed accommodates a variety of applications
- Adjustable rollers accommodate a variety of tube/ bottle sizes
- Stacking kit allows you to stack units two high, saving valuable bench space



Finnpipette F1 Pipettes and Tips

Exceptional performance with comfort, redefined

Thermo Scientific™ F1 Finnpiquette™ Pipette and Tips

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



Multidrop Combi Microplate Dispenser

Ultimate versatility for reagent dispensing

Thermo Scientific™ Multidrop Combi™ Microplate Dispenser

- Excellent precision even at low volumes
- Wide volume range of 0.5-2500 μ l
- Any plate, any well size - from 6 to 1536-well plates
- Simple operation via visual icon-based graphical color display
- High throughput 24/7 operation



Nunclon Sphera Cell Culture Surface Coating

Supports easy, repeatable growth of spheroid cultures

Thermo Scientific™ Nunclon™ Sphera™ Cell Culture Surface Coating

- Optimize spheroid formation — Grow cultures in suspension with low-binding surface
- Consistent spheroid growth — Expand volume of cells over time for easy, repeatable spheroid growth across multiple cell types
- Grow 3D cultures — Accurately simulate tumor cell progression
- Superior embryoid body formation — Form pluripotent stem cells with minimal spontaneous differentiation

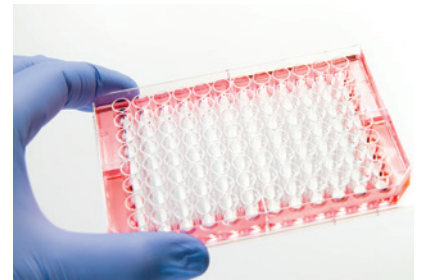


Nunc Edge 2.0 96-well Plates

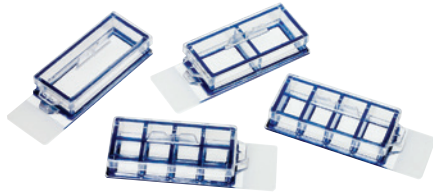
Take your cell-based assays to the edge

Thermo Scientific™ Nunc™ Edge™ 2.0 Plates

- Provides full-plate cell viability and consistency, improving your process, efficiency and results
- Prevents edge effect through use of a surrounding evaporation moat, enabling full-use of our 96-well plates



Lab-Tek II RS Glass Chamber Slides



Optical clarity with minimum fluorescence

Thermo Scientific™ Nunc™ Lab-Tek™ II RS Glass Chamber Slides

- Chambers are mounted to coverglass to provide optimal optical characteristics required for high magnification microscopy and confocal image analysis
- Soda lime glass, with special cell culture treatment wash, aids in the attachment of cells to the slide

Nalgene and Nunc External-Threaded Cryogenic Tubes

High quality, reliable sample storage



Thermo Scientific™ Nalgene™ and Nunc™ External-threaded Cryogenic Tubes

- Volumes from 0.5mL to 15.0mL
- Sterility to SAL 10⁻⁶
- Made from non-cytotoxic and non-mutagenic raw materials
- Large writing area and graduations for easy sample identification
- Available with linear barcodes for secure sample traceability
- Compatible with standard system cryoboxes and racks
- CE marked

Revco High-Performance Lab Refrigerators

Designed to protect media and reagents

Thermo Scientific™ Revco™ High-Performance Laboratory Refrigerators

- Wide range of cabinet sizes to fit your application need
- Advanced microprocessor temperature control
- Highest quality cabinet construction and alarm systems
- Forced air circulation for uniform temperature and fast door opening recovery
- Heat-free defrost for maximum uniformity
- Choice of glass or solid doors
- Keyed on/off switch with setpoint security



SMART Digest

Facilitating perfect digestion

Thermo Scientific™ SMART Digest Kits

- Kits provide fast and simple protein digestion with high reproducibility, high sensitivity, and high levels of data quality in a format that's compatible with automation
- SMART Digest Kits are a significant improvement over current in-solution protein digestion technologies, which are not reproducible, have poor sensitivity, and employ protracted methodologies not amenable to automation



Proteomics and Genomics

Supporting your intricate experiments with the tools you need to maximize your yield, purity and sample integrity. High-quality, reliable equipment and consumables enable you to proceed with confidence in your sample handling, processing, analysis and storage.

- Sample Handling and Preparation**
- Serological Pipettes
 - aPES and SFCA Filter Units
 - Centrifuges
 - PCO Conical Centrifuge Tubes - 15 and 50mL
 - Specialty Surface Flasks, Plates and Dishes
 - EZFlip Conical Tubes
 - CO₂ Incubators
 - Polypropylene Dishes and Multiwell plates
 - Flasks
 - Finn pipette F1 Pipettes and Tips
 - Microplate Dispensers
 - Orbital Shakers

Heraeus Benchtop Centrifuges
Fits in your lab and stands out with innovative technologies



Nunc EZFlipTubes
Ergonomic choice for easy handling



MaxQ Orbital Shaker
Trust your samples to an outstanding, reliable shaker



Precision Water Baths
A new generation to support your science



Sample Handling and Preparation

Storage

Revco High Performance Laboratory Refrigerators and Freezers
Your samples, our obsession

Nunc Cryobank
Ideal solution for storing and tracking samples



Cryopreservation Storage Equipment
Infinite sample storage, infinite possibilities

Analysis and Processing

- Finnpiquette F1 Pipettes and Tips
- SureStop Vials and Closures
- Chamber Slides
- Microplate Readers
- Bio LC Columns
- Polypropylene Microwell Plates
- Cryobank Tube System
- Smart Digest
- Syringes and Filters
- Microplate Dispensers

Storage

- Freezers
- Cryotubes and Cryoboxes
- Cryobank Vials
- Cryopreservation Systems
- Refrigerators
- ALPS Heat Sealer

Syringes

Dispense small volumes



Syringe Filters

Ensure clean samples

OWL Gel Boxes

Flexibility for your application



Forma Environmental Chambers

Meeting your specific needs



Heratherm Heating and Drying Ovens

Safe, easy and efficient



Bio LC Columns

Built for sensitivity, throughput and reproducibility



Analysis and Processing



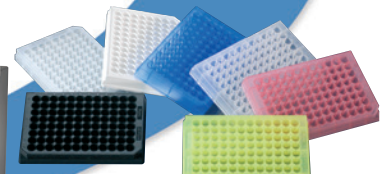
Orion Portable Benchtop Meters and Electrodes

The measure of confidence



Varioskan LUX

Simplified versatility for a range of applications



Nunc Storage Microplates

Ideal choice for Storage

SureStop Vials and Closures

Innovative vial design, unmatched performance

thermoscientific

Proteomics and Genomics Products

Nunc EZFlip Tubes

Ergonomic choice for easy handling



Thermo Scientific™ Nunc™ EZFlip™ Conical Centrifuge Tubes

- Ergonomic design enables one-handed opening and closing
- Integrated leak-proof cap helps prevent cross-contamination
- Clarified polypropylene combines chemical resistance with high-speed tolerance for optimal performance
- Tubes are compatible with a wide range of centrifuge rotors in your lab

MaxQ Shakers

Reliable versatility to move your research forward



Thermo Scientific™ MaxQ™ Orbital Shakers

- Reliability - Our outstanding drive mechanisms provide continuous 24-hour 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. View all parameters simultaneously to prevent risk of error while establishing running conditions
- Flexibility - Benchtop, floor and stackable models are available fully equipped with incubation, refrigeration and water bath options to accommodate any application and budget. Customizable solutions allow you to choose your platform and clamps for maximum flexibility and capacity

Precision Water Baths

A new generation to support your science



Thermo Scientific™ Precision™ Water Baths

- 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

Syringes

Dispense small volumes



Thermo Scientific™ National Target™ All-Plastic Disposable Syringes

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

Syringe Filters

Ensure clean samples



Thermo Scientific™ National Target2™ Syringe Filters

- Helps to ensure more consistent and reliable results
- Protects delicate instruments and prolongs column life
- Sizes and membrane types to meet any application need
- Cleaner sample extracts by removing interfering materials and fine particles down to the rated pore size
- Target2 Nylon Syringe Filters are a good choice for most general laboratory filtration

Owl Gel Boxes and Power Supplies

Flexibility for your application



Thermo Scientific™ Owl™ Gel Boxes and Power Supplies

- 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 solvent-welded construction
- Support – Three year warranty and experienced technical advice

Bio LC Columns

Built for sensitivity, throughput and reproducibility



Thermo Scientific™ Bio LC Columns

- Large portfolio of high-resolution, high-efficiency columns for separations of proteins and peptides
- Complete selection of ion-exchange and reversed-phase columns
- Stationary phases include polymer bead and monolith ion-exchange phases, and polymer and silica based reversed-phase

Environmental Chambers

Meeting your specific needs

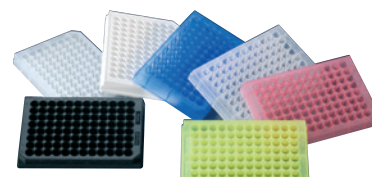
Thermo Scientific™ Forma™ Environmental Chambers

- 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



Nunc Storage Microplates

Ideal choice for storage



Thermo Scientific™ Nunc™ Storage Microplates

- Ideal for storage due to their lower binding characteristics
- Proteins and DNA will not adhere to polypropylene, allowing for complete sample recovery
- Variety of colors for quick identification of compounds being stored
- Ideal for use with Thermo Scientific ALPS heat sealers
- Excellent chemical resistance
- Withstands temperatures from -80° to +121°C

Varioskan LUX

Simplified versatility for a range of applications

Thermo Scientific™ Varioskan™ LUX Multimode Microplate Reader

- Five measurement modes: end-point, kinetic, spectra, multipoint and kinetic spectra
- Spectral scanning for assay optimization
- Integrated gas module for atmospheric control of CO₂ and O₂ for cell-based assays
- Simultaneous dispensing and measurement for follow-up of fast reactions right from the reaction start
- Paired with Thermo Scientific™ SkanIt™ software for intuitive instrument control and easy data handling



Cryopreservation Storage Equipment

Indefinite sample storage, infinite possibilities



Thermo Scientific™ Cryopreservation Storage Equipment

- Extended Hold Times – Unlike mechanical systems, Thermo Scientific LN₂ storage solutions are designed to offer consistent temperatures even when electricity is lost. Samples remain protected much longer during power outages than alternative technologies. With cryo storage tanks, the need to locate backup storage and relocate samples is dramatically reduced
- Low Power Consumption – Because most Thermo Scientific cryogenic storage products rely on liquid nitrogen, they consume less power than a standard light bulb, providing significant energy savings
- Zero Greenhouse Gases – Because LN₂ storage depends on the cooling power of naturally sourced nitrogen gas, there are no halogenated hydrocarbon refrigerants used and no greenhouse gas concerns

Orion Portable and Benchtop Meters and Electrodes

The measure of confidence

Thermo Scientific™ Orion Star™ A211 pH Benchtop Meter

- Easy meter operation assured with on-screen 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



SureStop Vials and Closures

Innovative vial design, unmatched performance



Thermo Scientific™ National™ SureStop™ and Thermo Scientific™ Chromacol™ SureStop™ Vials and Closures

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

Nunc Cryobank

Ideal solution for storing and tracking samples

Thermo Scientific™ Nunc™ Cryobank™ Coded Vial Systems



- ANSI footprint gives more storage/square footage over traditional 9x9 cryoboxes, holding 96 tubes per rack
- CE marked for medical device compliance.
- IATA certified for shipping samples from hospital to laboratories to other research institutions and biobanks
- 2D barcode on the bottom of every tube for enhanced sample tracking from patient side to the clinical lab to the research institution
- Automation friendly caps are compatible
- With capping/decapping equipment to enable efficient capping and decapping while also reducing contamination from manual handling

Heratherm Heating and Drying Ovens

Safe, easy and efficient

Thermo Scientific™ Heratherm™ Heating and Drying Ovens



- Energy efficient, increasing cost effectiveness, reducing environmental impact
- Unique door design reduces heat emission
- Timer for effective usage and additional energy savings
- Space saving footprint without compromising volume
- Flexible shelving system allows for optimal space utilization
- Smart safety system surveys functionality of oven consistently
- Temperature uniformity: $\pm 1.3^{\circ}\text{C}$ at 150°C
- Automatic audible and visual over-temperature alarm

Laboratory Refrigerators and Freezers

Your samples, our obsession

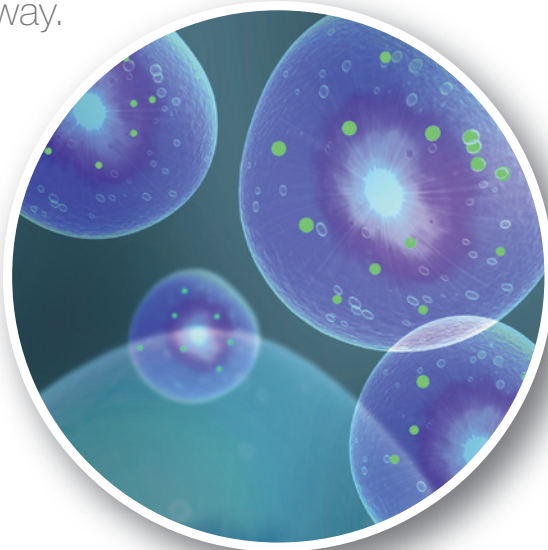
Thermo Scientific™ Revco™ High Performance Lab Refrigerators and Freezers

- Designed from the ground up for your most demanding applications
- Powerful industrial compressors provide fast recovery from door openings and the addition of new samples
- Advanced microprocessor control provides flexibility in setpoints and alarms, plus accurate temperature control
- Key-operated alarms and setpoint security.
- Easy-to-read digital displays
- Designed to meet UL and CE criteria for safety and performance



Cell Therapy and Bioprocessing

When it comes to producing consistent quality vaccines, biologics and cellular therapeutics designed to improve and save lives, nobody can do it alone. We have the hands-on expertise to help you accelerate productivity and ease the burden of regulatory compliance. With a comprehensive range of cell production and storage solutions, a global supply chain, and commitment to service and support, we're with you everywhere, every step of the way.



- Media Preparation**

 - Powdered Media
 - Water Purification Systems
 - Tanks and Tank Liners
 - Magnetic Stirrers
 - Bottles & Carboys

Cell Isolation

 - Cryotubes
 - Pipettes & Tips
 - Clean Benches
 - Cell Culture Dishes & Flasks



Nalgene Round and Rectangular Carboys
Large volume storage

Nalgene Square PETG Media Bottles
Ideal for storage and sampling

Nalgene Tanks & Tank Liners
Economical alternative to stainless steel

ART Pipette Tips
Self-sealing barrier ensures protection

Media Preparation

Storage



High Performance Laboratory Refrigerators and Freezers
Your samples, our obsession

Nalgene Centrifuge Bottles
Spin with confidence at any scale

Nalgene PC Biotainer Bottles & Carboys
For the storage and transportation of APIs

SureStop Vials and Closures
Innovative vial design, unmatched performance

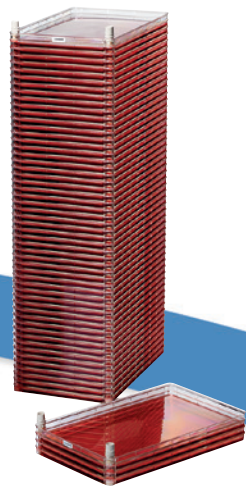
<p>Cell Scale-Up</p> <ul style="list-style-type: none"> • Cell Culture Flasks • Cell Factory Systems • Biosafety Cabinets • CO₂ Incubators • Custom Solutions for Closed Systems • Smart Digest • Syringe Filters 	<p>Production Cell Culture</p> <ul style="list-style-type: none"> • Roller Bottles • Automated Cell Factory Manipulator • Single-Use PETG Shaker Flasks • CO₂ Incubators • Liquid Handling Bags/Containers • Single Use Bioreactor • Custom Tubing Sets 	<p>Harvest, Separation & Purification</p> <ul style="list-style-type: none"> • Rotors & Centrifuges • Continuous Flow Centrifuges • Bottles & Carboys • Centrifuge Bottles • Custom Tubing Sets • Portable Benchtop Motors and Electrodes 	<p>Storage</p> <ul style="list-style-type: none"> • Cryotubes • Bottles & Carboys • Biotainer Bottles & Carboys • Drums • Refrigerators • Freezers
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Nunc TripleFlasks
Maximum surface area in the footprint of a standard flask



Nalgene Biotainer Bottles
Focus on your process, not the container

Nunc Cell Factory Systems
Multi-layered cell culture solutions for the cultivation of adherent cells



Heracell VIOS 250i CO₂ Incubator
Ideal for high volume cell culture vessels



Nalgene Sterile Single-Use PETG Flasks
Ideal for suspension cell culture



Cell Isolation

Cell Scale-Up

Harvest, Separation & Purification

Production Cell Culture

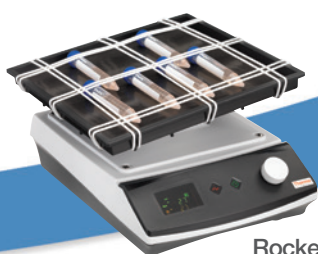
Bio LC Comumns
Built for sensitivity, throughput and reproducibility



Sorvall BIOS 16 Bioprocessing Centrifuge
For high quality harvesting, separation and purification bioprocessing method



Nalgene HDPE Biotainer Bottles
Ideal for storage and transport of biological materials



Rockers and Rotators
Maximize your lab's efficiency through reliable precision



Nunc Automatic Cell Factory Manipulator
Increase your processing speed and eliminate manual handling



Nunc Roller Bottles
Increase cell expansion and product yield

Cell Therapy and Bioprocessing Products

Nalgene Tanks & Tank Liners

Durable and built for performance

Thermo Scientific™ Nalgene™ Tanks & Tank Liners

- Excellent choice for reagent storage, aseptic mixing, and dispensing
- Designed for use as closed systems
- Available in a variety of sizes and shapes, ranging from 75 L to 380 L
- Enhance mixing capabilities with coex polyethylene film tank liners open-bag, flat-bottom liners



Nalgene Carboys & Jerricans

Large volume storage

Thermo Scientific™ Nalgene™ Carboys

- 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



Nalgene Square PETG Media Bottles

Ideal for storage and sampling of APIs and bulk intermediates

Thermo Scientific™ Nalgene™ Square PETG Media Bottles

- Suitable for frozen storage down to -40°C
- Heat-shrink band around closure and neck for tamper-evident seal
- Leakproof bottles and HDPE closures provided
- Sterile and non-pyrogenic
- Available in low particulate format
- Supported by extensive validation documentation



ART Pipette Tips

Fits virtually any pipette

Thermo Scientific™ ART™ Pipette Tips

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



Nunc TripleFlasks

Maximum surface area within the footprint of a standard flask

Thermo Scientific™ Nunc™ TripleFlask

- Three parallel layers and a straight neck design works effectively with automation systems
- Promotes conventional, flat monolayer culturing
- Ideal for large cell mass applications such as drug screening and scale up
- Available barcoded with large Code 128



Nunc Cell Factory Systems

Compact, single-use systems for easy scale-up

Thermo Scientific™ Nunc™ Cell Factory Systems

- Assured performance from lot-to-lot and format-to-format
- No adhesive, no solvent, no bubble
- Aseptic design
- Customize with alternative port configurations and tubing sets



Nalgene HDPE Biotainer Bottles

Ideal for storage and transport of biological materials

Thermo Scientific™ Nalgene™ HDPE Biotainer Bottles

- Eliminate the cost of cleaning, sterilizing and associated validations
- Bottles offer excellent chemical resistance and support storage conditions of -100° to +120°C
- Sterilized by gamma irradiation to a Sterility Assurance Level (SAL) of 10⁻⁶



Nalgene Sterile Single-Use PETG Flasks

Ideal solution for scaling up your suspension cultures

Thermo Scientific™ Nalgene™ Single-Use PETG Flasks

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



Nunc Roller Bottles

Increase cell growth and product yield

Thermo Scientific™ Nunc™ Roller Bottles

- Cell culture treated for consistent, reliable cell attachment
- Developed for applications such as the industrial scale production of vaccines, monoclonal antibodies and biotherapeutics
- Available in both PS and PETG with smooth and expanded surface formats
- Certified sterile by gamma irradiation per ANSI/AAMI/ISO 11137 Guidelines



Nalgene Centrifuge Bottles

Spin with confidence at any scale

Thermo Scientific™ Nalgene™ Centrifuge Bottles

- Ideal for large volume cell harvesting, pelleting and protein purification
- Available with round or conical bottoms
- Full range of sizes from 175mL to 2L



Nunc Automated Cell Factory Manipulator

Increase your processing speed and eliminate manual handling



Thermo Scientific™ Nunc™ Cell Factory™ Systems

- Electronic and pneumatic controls, to automate the filling and emptying of a medium or cell suspension
- Designed for use in clean room environments
- Handles 4-Cell Factory 40/52 or 12-Cell Factory 10/13

Rockers and Rotators

Maximize your lab's efficiency through reliable precision



Thermo Scientific™ Rockers and Rotators

- PID control ensures consistent and smooth rocking motion
- 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)

Sorvall BIOS 16 Centrifuge

Performance simplified at every turn

Thermo Scientific™ Sorvall™ BIOS 16 Centrifuge

- Outstanding capacity to maximize productivity
- Enhanced ergonomics with push-button convenience
- Simplified operation and space-saving design disinfecting



Nalgene PC Biotainer Bottles & Carboys

Specifically designed for pharmaceutical and biological manufacturing



Thermo Scientific™ Nalgene™ PC Biotainer Bottles & Carboys

- Durable, translucent PC construction ensures the integrity of your sample, even frozen to -100°C
- All container/closure systems are certified leakproof to protect valuable contents
- Provided sterile and ready-to-use; including certified clean products, which meet USP <788> standards and endotoxins below 0.5 EU/mL
- Certified clean products include triple layer packaging, with two heat-sealed layers to facilitate ease of entry into cleanrooms

Every lab, every day products

Samco Transfer Pipets

Prevent cross-contamination

Thermo Scientific™ Samco™ Transfer Pipets

- Built-in bulb eliminates need for plugging, packaging and autoclaving
- Shatterproof
- Non-toxic polyethylene
- Low-affinity surface reduces loss of cells and valuable proteins due to binding
- Can be frozen in liquid nitrogen or heat sealed for storage



VersaCool Refrigerated Circulating Bath

Experience the benefits of going headless

Thermo Scientific™ VersaCool™ Refrigerated Circulating Bath

- Largest bath with a small footprint
- Energy efficient refrigeration system resulting in lower power consumption and energy costs
- Intuitive, 5.7" touchscreen color display for easier, more efficient set up
- Tool-less, drip-less rack and lid for enhanced safety and faster cleanup
- Global voltage input that works worldwide
- USB and Bluetooth™ communications enabling remote operation



Dry Baths

Designed to achieve precise temperature stability

Thermo Scientific™ Dry Baths

- Built-in temperature sensing probe designed for outstanding temperature accuracy and control
- Precise temperature control with PID circuit
- Temperature calibration enables to offset the temperature to desired value
- Timer enables the user to accurately monitor the heating time
- Interchangeable aluminum alloy sample blocks designed to provide versatility, easy cleaning and disinfecting



Thermal Mixers

Versatile mixer with variable speed and temperature control

Thermo Scientific™ Thermal Mixers

- Fast heat-up and cooling times and quick to reach specified mixing speed
- Temperature control range : +15°C to 100°C; stability: ±0.1°C
- Shaking speed : 250 to 1400 rpm
- Choice of 5 interchangeable blocks
- LCD Display indicates the set and actual time of operation, mixing speed, and temperature
- Heating/Cooling and mixing functions can be run independently of each other

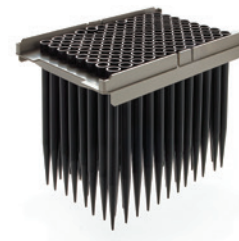


Automation Tips

Achieve accuracy and precision

Thermo Scientific™ Pipette Tips for Automated Liquid Handlers

- Quality controlled for reliable and consistent performance for many automated pipette systems
- Tips designed for Tecan, Beckman, PerkinElmer/Packard, Eppendorf epMotion Automated Pipette Systems
- Many others





Savant SpeedVac Vacuum Concentrator

Convenience, Safety and Flexibility

Thermo Scientific™ Savant™ SpeedVac™ Vacuum Concentrators

- Consistent Performance – Equipment in a typical research lab must be designed to support multiple users, numerous protocols, and many runs per day
- 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
- Compact, Easy-to-Use Design – Our DNA concentrators are the smallest integrated benchtop units available



Heraeus Microcentrifuges

Safe, powerful, versatile, easy-to-use

Thermo Scientific™ Heraeus™ Microcentrifuges



- The standard rotor runs 24 tubes in a single row with equalized g-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
- Wide variety of rotors support 0.5 mL microtubes, 0.2 mL PCR tubes and hematocrit capillary tubes
- Lightweight rotors are designed to provide acceleration up to 21,100 xg in 12 seconds
- Refrigerated versions offer cooling from room temperature to set temperature in just 9 minutes
- Fast one-click centrifuge lid closure

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