

A microscopic view of various cells and bubbles, some green and some purple, against a bright yellow-green background. A large, semi-transparent green sphere is prominent in the upper left, with several smaller purple spheres scattered throughout the scene.

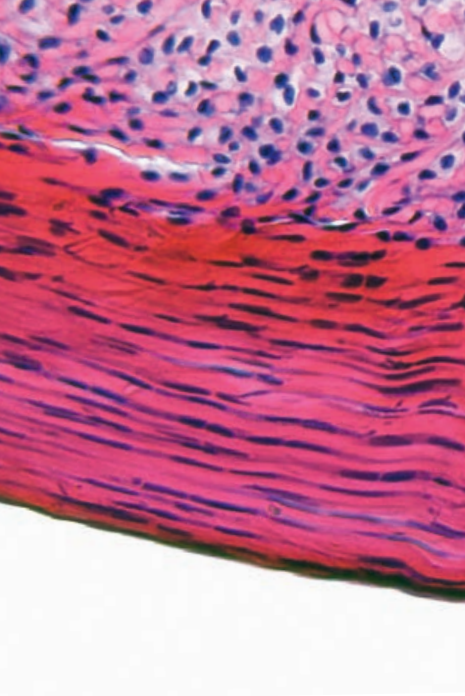
TECHNOLOGY

connections

● A guide to our analytical instruments, laboratory equipment, consumables and reagents, software and service solutions.

thermoscientific.com

Thermo
SCIENTIFIC



For more detailed information
on any product or service referenced
in this guide, look for links to –

[thermoscientific.com](https://www.thermoscientific.com)



TECHNOLOGY connections

This guide provides an at-a-glance view of our product portfolio. It is organized into specific product categories, each including a brief description and a list of the key products offered or applications served.

An at-a-glance overview of our product portfolio.



Results

In the lab, every result leads to another question. One brand is at your side with mass spectrometers, consumables, protein reagents – whatever innovative products and equipment will help accelerate the pace of scientific discovery and solve analytical challenges.

The background features a dark blue upper section with glowing white dots and lines that transition into a lighter blue and white lower section. The overall aesthetic is clean, modern, and scientific.

are what matter.

**Where bold progress is made,
the Thermo Scientific brand is there.
For the routine tasks and breakthrough
discoveries, helping scientists and
engineers tackle the big questions
that come up every day.**

Thermo Scientific Bioprocessing Systems and Solutions

Quality sera for cell culture, classical media, serum-free and protein-free media, process liquids and flexible and single-use bioprocess container systems. Advance productivity for life science research and protein-based drug production with products that have set industry standards for quality and innovation. Our experts understand your needs and can facilitate your research to maximize results.

Key Applications:

- Bioproduction
- Cell culture
- Handling of bioprocessing fluids
- Life science research
- Protein-based drug production
- Stem cell research



Featured Products

Cell Culture Supplements, Reagents, Process Liquids

A full range of antibiotic, amino acid and nutritional supplements.

Classical Media

An extensive line of high-quality liquid classical media formulations in convenient packaging configurations.

Serum-Free, ADCF or CD Media

Standard and customized cell culture media for the cultivation of a wide range of cell lines, such as CHO, PerC6 or insect cells.

Serum

An unparalleled and extensive line of specialty serum with consumables such as Embryonic Stem Cell screened FBS and cutting-edge products like Synovial Fluid replacement serum

Single-Use BioProcess Systems

Systems consisting of flexible disposable plastic containers, ports, tubing and fittings that may incorporate ancillary components like filters and valves. Container chambers are offered in a wide range of volumes from 50 mL to more than 1500 L, and come pre-sterilized by gamma irradiation.

Thermo Scientific Clinical Diagnostic Testing Products

For the research, development, and manufacture of unmatched diagnostic reagents, supplies, and instruments to determine disease markers or analytes of diagnostics interest. High-quality solutions to help clinical laboratories increase efficiency and improve safety.

Products Include:

- Diagnostic Biomarkers
- Diagnostic Testing Reagents
- Diagnostic Testing Standards and Calibrators
- Microbiology
- Quality Controls and Proficiency Software



Featured Products

Clinical Chemistry Analyzers

Clinical chemistry analyzers are part of an integrated analytical and automation solution for clinical laboratories.

Clinical Plastic and Glass Consumables

Plastic and glass consumables for clinical applications including microwell plates, petri dishes, transfer pipettes and tubes.

Diagnostic Testing Reagents

A comprehensive range of powder and liquid stable reagents, and applications for most chemistry analyzers. The point-of-care controls can be used for near patient testing in hospitals and physician offices. Also available are urinalysis, hemoglobin and occult blood controls.

Mass Spectrometry Systems

Single quadrupole, triple quadrupole, ion trap, Orbitrap™, FTICR and magnetic high resolution sector field technologies.

Medical Beverages

Trutol® is available in plastic bottles, non-carbonated formulas, 50, 75 and 100 gram concentrations, and orange, lemon-lime, and fruit punch flavors.

Particle Technology

Microparticles for use as reference standard for size measurements, as flow tracing devices, for molecular biology, and nucleic acid isolation applications and as reactive surfaces to transport diagnostic reagents.

Thermo Scientific Environmental Monitoring and Safety Products

Chemical analysis laboratory instruments and a range of dedicated air quality and water analysis products. We also offer radiation detection, measurement and security instrumentation. A broad range of solutions for applications designed to make the world a healthier, cleaner and safer place. Serving analysts with products from high performance laboratory instruments to field operated monitors.

Products Include:

- CID Cameras
- Explosive Trace Detection
- Microbial Safety Testing



Featured Products

Air Quality Instruments and Systems

Air quality and industrial hygiene analytical instruments to help you protect people and the environment.

Handheld XRF Analyzers

Lightweight and rugged, our handheld XRF analyzers are purpose-built for taking measurements anywhere, anytime with accurate results available in seconds, rather than the hours or days it can take for a traditional testing laboratory.

Industrial Hygiene Instruments

Gas and dust detectors for monitoring and alerting of potentially dangerous environments. Monitoring for the presence of irritating particulates, combustibles, and toxic gases, improving worker and plant safety.

Radiation Measurement and Safety Products

Radiation detection instruments and systems used by the nuclear industry, DOE National Laboratories, national and international safeguards organizations, defense and law enforcement agencies.

Water Analysis Instruments and Supplies

Water analysis instruments covering the full range – from pH, ISE, conductivity and dissolved oxygen meters, electrodes and solutions, to colorimetry, titration and on-line process monitors.

Thermo Scientific Equipment and Furniture

Market-leading equipment, accessories, and services for sample preparation, storage and protection, and analysis. High-quality instruments and equipment and affordable consumables from specialists in laboratory technology and applications.

Products Include:

- Electrophoresis and Molecular Biology Equipment
- Freeze Dryers and Vacuum Concentrators
- Heating Equipment
- Hot Plates, Stirrers and Stirring Hot Plates
- Manual and Automated Liquid Handling
- Microbiological Incubators and Environmental Chambers
- Pumps and Flowmeters
- Shakers
- Water Purification



Featured Products

Biological Safety Cabinets and Clean Benches

With unique technologies that create a very safe and comfortable working environment, our biological safety cabinets provide best-in-class safety, ergonomics and energy efficiency for today's most demanding laboratory applications.

Centrifuges and Rotors

Our centrifuge systems deliver outstanding performance and reliability in the lab. From microcentrifuges and benchtop instruments, to advanced floor models and innovative carbon fiber rotors – all offer exceptional quality for consistent results – year after year.

CO₂ Incubators

With unmatched choice, advanced technology and proven results, our CO₂ incubators deliver innovative market-leading designs and application-based solutions to achieve your cell culturing goals.

Cold Storage

Proven cold storage sample protection solutions from +4°C high-performance lab refrigerators to -196°C cryogenic freezers and Thermo Scientific brand consumables.

Laboratory Furniture and Fume Hoods

Furniture selections include casework and adaptable systems in painted steel, stainless steel, wood, plastic laminate and phenolic resin. Our extensive fume hoods offering is inclusive of more than 2,000 types and sizes.

Temperature Control

A complete portfolio of refrigerated/heated bath circulators, immersion circulators, immersion coolers, recirculating chillers, and water-to-water heat exchangers for your application needs.

Thermo Scientific Laboratory Plasticware, Glassware and Supplies

High-quality plasticware, glassware and supplies designed to perform flawlessly in demanding laboratory environments. Put your trust in proven products developed by industry experts for performance, usability and cost effectiveness.

Products Include:

- Cryoware
- Filtration Products
- PCR qPCR Consumables
- Sample Collection Storage



Featured Products

Cell Culture Vessels and Microplates

A complete line of cell-culture products and bioprocessing systems for drug development and production.

Chromatography Columns and Supplies

Chromatography consumables including premier HPLC, GC and SPE phases.

Labware

A broad selection of over 4,700 industry-leading labware and accessories. Products range from beakers to wash bottles and are engineered for unmatched quality, reliability and consistency.

Microscope Slides and Specialty Glass

Microscope slides, coverglass, microarray, diagnostic printed slides and custom specialty glass featuring unique coatings, shapes and capabilities for a host of laboratory applications.

Manual and Automated Liquid Handling

A broad range of laboratory consumables, handheld and automated pipetting systems with a reputation for combining simplicity, comfort and functionality with superior ergonomic design.

Thermo Scientific Life Science Research Technologies

Innovative bioscience technologies in life science research and drug discovery for protein research, cell culture, high-content cellular analysis, RNAi and gene expression, PCR/qPCR reagents, plastics and instruments, and molecular biology tools, such as restriction and conventional enzymes. A partner to scientists and laboratories advancing “personalized medicine” and pioneering “protein-based” drugs through biomarker discovery. Providing innovative analytical instruments, essential lab equipment, supplies and biotools for research workflow of cell culture, cell biology, drug discovery, molecular biology, systems biology, stem cells and more.

Products Include:

- Antibodies
- Cell Culture and Cellular Analysis
- Custom Services
- Immunoreagents
- Molecular Biology Tools
- PCR/qPCR Reagents, Plastics and Instruments
- RNAi and Gene Expression



Featured Products

Cell Culture Media, Sera, and Reagents

Our Classical Media products comprise the most common formulations used in today's research market. Specialty media include formulations for growth of embryonic stem cells, as well as animal component free culture and special growth supplements and surfaces.

Gene Function Analysis

Advanced RNAi and Gene Expression portfolio that includes siRNA, shRNA, microRNA, cDNA/ORF, shMIMIC, and more.

High-Content Analysis

Automated imaging instrumentation, image analysis software, high-content informatics, reagent kits, and screening assays and cell lines.

Molecular Biology Reagents

A molecular biology and enzymology portfolio that includes conventional and restriction enzymes, nucleic acid and protein purification, dNTPs and transfection reagents.

Nucleic Acid Synthesis and Labeling

High-quality oligonucleotide synthesis and labeling reagents, with expertise in protection chemistries, manufacturing scale up and innovative purification strategies.

Protein Research Reagents

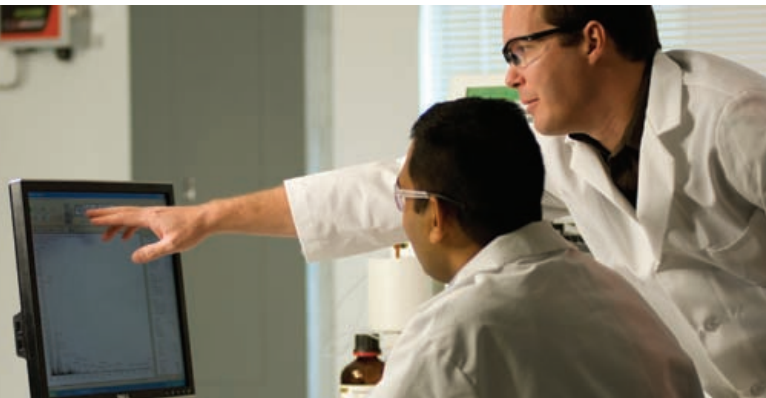
The widest selection of tools for sample preparation, protein modification and detection, and custom antibody and proteomics services to help you accomplish your research as accurately and efficiently as possible.

Thermo Scientific LIMS and Laboratory Software

Across the lab, the enterprise, the globe, we deliver an end-to-end portfolio of informatics solutions that enable scientists and management to make faster and more informed decisions. Built for purpose, our full-spectrum software portfolio encompasses laboratory information management systems, chromatography data systems and spectroscopy software, as well as electronic laboratory notebooks and document management systems.

Key Applications:

- Atlas CDS for enterprise level chromatography
- CONNECTS for integrating the laboratory with enterprise systems
- Darwin LIMS for pharma manufacturing QA/QC
- Nautilus LIMS for research and development
- SampleManager LIMS for process industries
- Watson LIMS for bioanalytical laboratories



Featured Products

Chromatography Data Systems (CDS)

Our award-winning CDS solutions include enterprise level offerings for global deployment, as well as software designed to maximize the functionality and efficiencies of our world class scientific instruments.

Laboratory Information Management Systems (LIMS)

Designed for flexibility, our industry-leading LIMS include SampleManager, Watson, Darwin, Nautilus, and Galileo.

Pharmacokinetic-Pharmacodynamic Software

Award winning Kinetica provides standardized pharmacokinetic-pharmacodynamic analysis for drug development across your organization.

Spectral Libraries

Our extensive GRAMS series of spectral libraries includes information specific to application, industry or spectral technique.

Spectroscopy Software

For over 20 years, GRAMS spectroscopy software suite has been the premier solution for visualizing, processing and managing spectroscopy data.

Thermo Scientific Pathology Equipment and Supplies

A complete line of anatomical pathology equipment and consumables from specimen collection to diagnosis. Providing more solutions for a more efficient, safe and productive lab environment.

Key Applications:

- Advanced staining (IHC)
- Autopsy
- Cytology
- Dissection
- Labeling and verification
- Necropsy
- Sectioning
- Tissue processing / embedding



Featured Products

Cytology Equipment and Supplies

Laboratory equipment and consumables to support the pre-analytical phase of the testing process in Cytology. From collection fluids, slides and stains to automated stainers and slide labelers.

Histology Equipment and Supplies

Histology products and services from gross dissection to slide staining and coverslipping.

Morgue/Autopsy Equipment and Supplies

A comprehensive range of post-mortem examination products and services. Dissecting, autopsy and necropsy tables, sinks, refrigerators, grossing stations and cabinetry.

Staining and Immunohistochemistry Reagents

Rabbit monoclonal antibodies that are recognized to be most advanced markers in the industry with superior sensitivity and specificity.

Tissue Processing Equipment and Supplies

Tissue processors for histology from state-of-the-art reaction chambers to high-volume, totally enclosed processors.

Thermo Scientific Process Monitoring and Industrial Instruments

Products for monitoring and control in industrial applications through timely measurement of critical quality and performance attributes. Process instruments designed for accuracy, reliability and ease of use.

Key Applications:

- Contaminant detection
- Environmental compliance
- Material identification and analysis
- Quality control



Featured Products

Asphalt Paving Systems

Bulk Weighing, Monitoring and Sampling

Cement, Coal, Minerals Sampling and Online Analysis

Checkweighers, Metal Detectors and X-ray Inspection

ESD, EMC and TLP Test Systems

Flat Sheet Gauging for Metals and Web Applications

Flow, Density, and Level Measurement

Handheld Material Verification

Handheld XRF Analyzers

Material Characterization and Testing

Nuclear Power Instruments

Online Process Analyzers

Thermo Scientific Scientific Instruments and Automation

Leading scientific instruments, automation, software and accessories serving research, engineering, analytical and industrial applications. From the leading edge of research, untangling the most complex scientific questions, to industry, where workflow, efficiency and uptime are the standard, Thermo Scientific instruments and automation systems provide the answers that allow you to advance your work and achieve success.

Products Include:

- Colorimetry Meters
- Electrochemistry Meters
- High Content Screening Analysis Systems
- Laboratory Automation and Robotics
- Microstructure and Porosimetry Testing
- Rheological Thermal Properties Analysis
- Scientific Instrument Services and Support
- Surface Analysis



Featured Products

Chromatography

Helping your chromatography laboratory meet the challenges of today, our GC, LC, GC-MS, LC-MS, GC-MS/MS, columns, sample prep, and vials deliver the results you need.

Elemental Analysis

Identify elemental composition and contaminants in human, environmental and industrial applications while optimizing production processes and laboratory workflows.

Mass Spectrometry

Industry-leading mass spectrometry solutions including GC-MS, LC-MS, and Isotope Ratio MS instruments combined with proven application-specific software to solve a range of analytical challenges in both research and routine laboratories.

Microanalysis and Electron Microscopy

Integrated microanalysis systems providing EDS and WDS detectors, analyzer and software.

Microplate Instrumentation

Detection instruments, liquid handling instruments, purification systems, and supporting microplate technology products for scientists in the life science field.

Molecular Spectroscopy

Innovative molecular spectroscopy solutions. FT-IR, Raman, NIR, UV-Vis and Fluorescent spectrometers, spectrophotometers and microscopes.

A Full Spectrum of Services

Our portfolio of comprehensive, proven services address every aspect of laboratory operation, product and application development, financing, maintenance, repair and education. We work with you to provide a solution that simplifies the management of your environment – be it in a laboratory, in the field or on a manufacturing line – to increase uptime and productivity.

Application Development & Support

Services to supplement your to-market process: contract research, BioProduction, compatibility studies or application-specific training.

Asset Management & Maintenance Programs

Services that control activities and processes in order to optimize the cost and performance of laboratory instruments and equipment from acquisition to disposition.

Contract, Custom & OEM Manufacturing

Custom (OEM) design, manufacturing, and packaging services. Our capabilities span from simple private labeling to complete product development, design, validation, and manufacturing.

Laboratory Informatics Services & Support

Integration, migration, validation and implementation services for laboratory informatics.

Laboratory Planning & Construction

Services to design, construct, renovate, furnish or commission a fully-optimized workspace.

Leasing & Financial Services

Dedicated financing professionals committed to providing you with financial solutions for all of your Thermo Scientific instrument acquisitions.

Self Help Knowledge Bases & eSupport

Knowledge Bases offer a web-based, self-help option for answering product questions, accessing documentation and resolving issues.

Training & Certification

People are the most valuable assets in any lab. We offer comprehensive, professional training and certification through a variety of venues for your convenience: online, on-site or at one of our worldwide training institutes and demo centers.

Visit **thermoscientific.com** for more on these services for your business. Service offerings and support options for our products are described on each product page.

Contact Information

North America

1-877-411-1837

Europe

00 800 7070 7079 or

+41 61 716 77 77

© 2011 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.