



Synthetic Biology



Thermo Fisher Scientific Mission

Thermo Fisher Scientific Inc. is the world leader in serving science, with revenues of more than \$20 billion and approximately 70,000 employees globally. Our mission is to enable our customers to make the world healthier, cleaner and safer. We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics, deliver medicines to market and increase laboratory productivity.

Our Business Capabilities



Turnkey Solutions



Integrated Capabilities



Enterprise Services



Instrument Services

Turnkey Solutions



From Concept to Operation

Built by scientist for scientists

Thermo Fisher Scientific, provides laboratory products and services to the scientific community. Our breadth of products, global operations, financial strength and experience make us uniquely qualified to undertake turnkey laboratory projects. Our customers include engineering procurement and construction companies, multinational corporations, academic and research institutes.

We can provide turnkey solutions from concept to operation, including project management, source, logistics, engineering and installation.



Fume Hoods



Casework



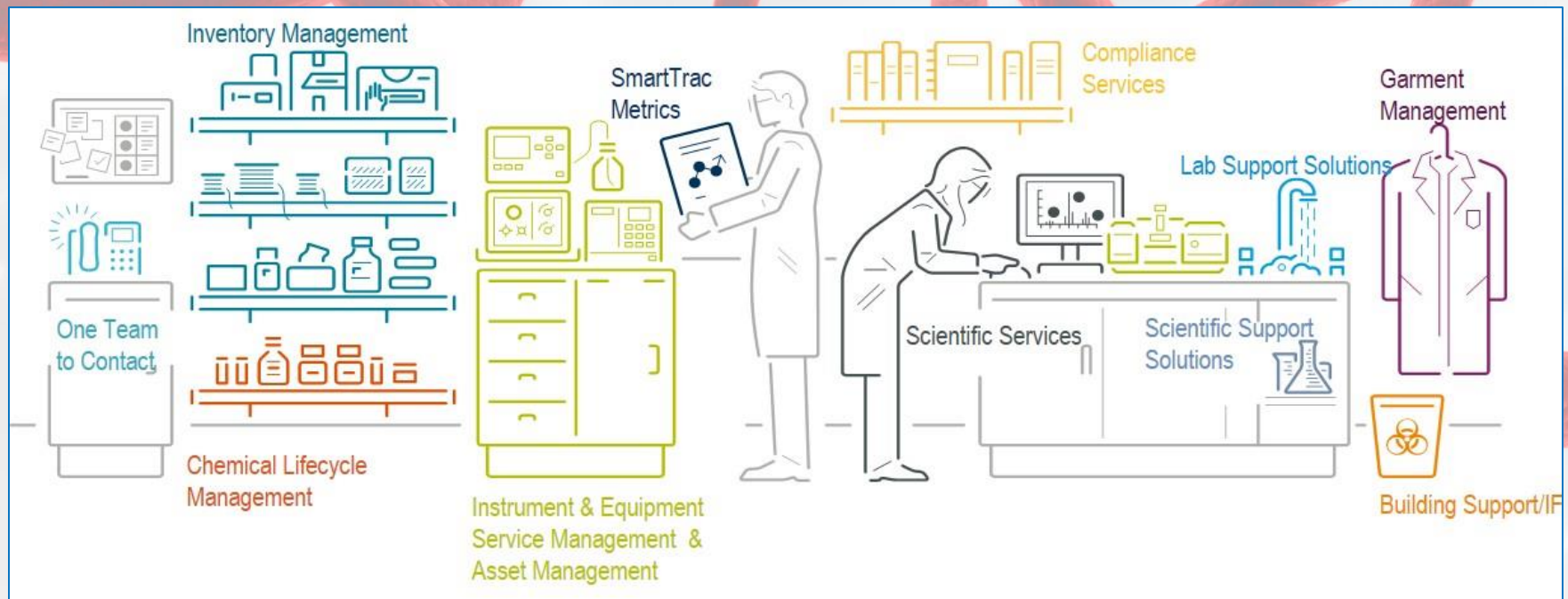
Adaptable System



Integrated Capabilities



Enterprise Services



[Find Out More](#)

- 1. Managed Services**
 - Supply Management Solutions
 - Scientific Support Solutions
- 2. Asset Management Services**
- 3. Smart Relocation**

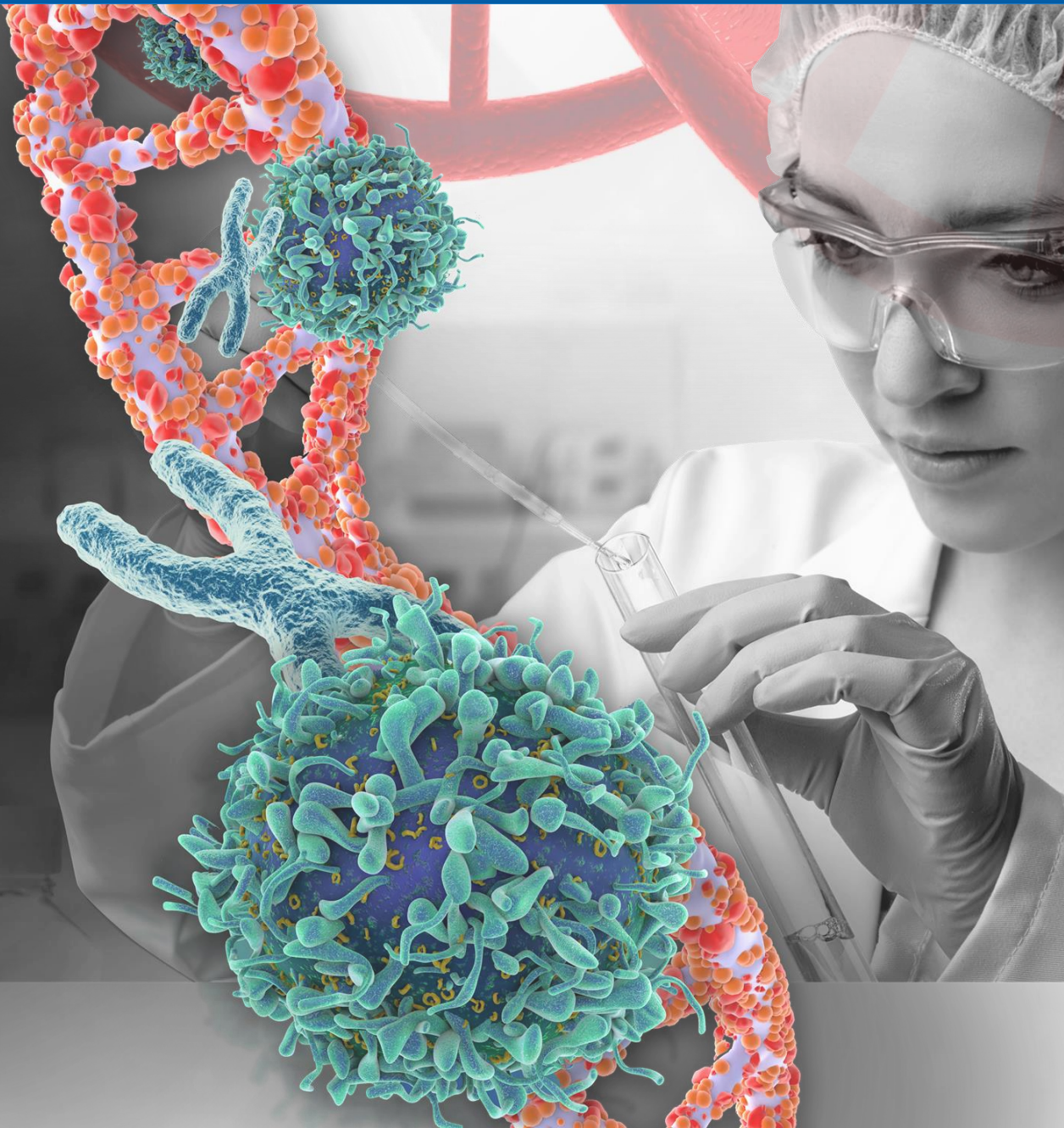


Instrument Services

- Instrument Compliance and Validation Services
- Installation
- Maintenance and Repair
- Technical Support
- Support Plans

[Find Out More](#)





Synthetic biology combines molecular biology and systems biology with engineering principles to design biological systems and bio-factories. The aim is to create improved biological functions to address current and future challenges.

We believe synthetic biology will change the way we create energy, produce food, optimize industrial processing, and detect, prevent, and cure disease. We are committed to offering unparalleled technology and solutions to this research community. Through science and engineering, this unique area enables researchers to study, alter, create, and re-create highly complex pathways, DNA sequences, genes, gene products, and natural biological systems, in order to understand and answer some of life's most challenging questions.

Our solutions for Synthetic Biology including:

- > [Gene Synthesis and Analysis](#)
- > [Protein Synthesis and Analysis](#)
- > [Microbial Culture](#)
- > [Cell Culture](#)
- > [Animal Imaging](#)

Highlighted Products

[Cold Storage Solutions](#)

[Freeze Dryer](#)

[Cleanroom & Safety Solutions](#)



Gene Synthesis and Analysis

Gene synthesis, genetic manipulation and analysis are basic tools of synthetic biology. At Fisher Scientific, we provide gene synthesis service for the manufacturing of DNA molecules of desired genetic sequences. Tools for genetic manipulation such as plasmids for CRISPR/CAS9 workflow, nucleic quantification, and real-time PCR are also among the repertoire of products available.



Gene Synthesis and Modifications



Gene Synthesis Service



CRISPR/Cas9



RNAi

Nucleic Acid Purification



Silica Spin Column Extraction Kit
RapidPure



Magnetic Bead-based Extraction Kit
GeneSig Easy Extraction Kit



Centrifuge
Sorvall™ Legend™ Micro 21 Microcentrifuge



Automated DNA Extraction
Systems & Reagents
BioMagPure 12

Continue..

Quantification

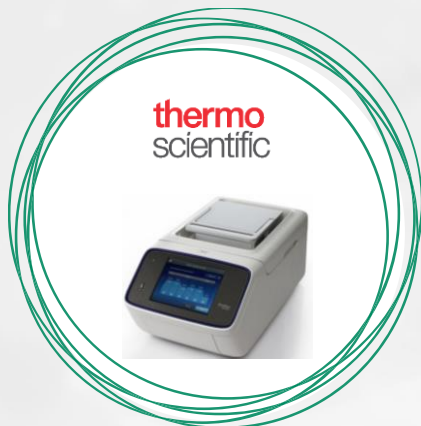


Microvolume Spectrophotometer
NanoDrop One

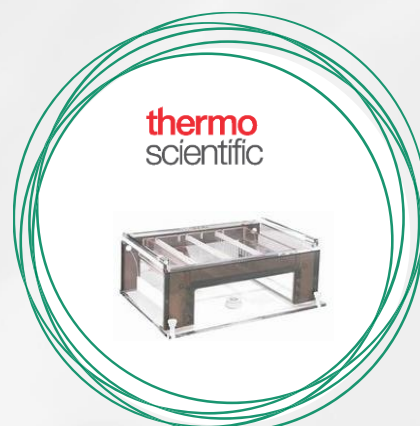


Microvolume Spectrophotometer
7415 Nano

PCR & qPCR



Thermal Cycler
ProFlex™ 96-well PCR System



Electrophoresis
OWL™ A5 Horizontal Electrophoresis System



Electrophoresis
Fisherbrand Horizontal Electrophoresis Systems



Gel Documentation System
Infinity

PCR & qPCR



PCR Cabinet
DNA/RNA UV-cleaner Box



qPCR instrument
MyGO Pro

Reagents



PCR and qPCR Reagents



PCR and qPCR Reagents



Electrophoresis Reagents



Electrophoresis Reagents



A detailed 3D molecular model of a protein structure, rendered in shades of green, yellow, and blue. The model shows the complex folding of the protein chain, with various loops, helices, and sheets. The atoms are represented as small spheres, and the bonds are shown as thin rods. The overall structure is intricate and multi-layered.

Protein Synthesis and Analysis

At Fisher Scientific, we offers an extensive list of over 17,000 high quality recombinant proteins and 24,000 high quality catalog antibodies. Custom synthesis service is also available. Furthermore, we also provide instruments and equipment for protein analyses by electrophoresis, microplate readers, and mass spectrometry.



Peptide Synthesis



Peptide Synthesis Service

Antibody Production



Antibody Production Service

Quantification



Microvolume Spectrophotometer
NanoDrop One



Microvolume Spectrophotometer
7415 Nano



Protein Quantification Reagent
Bradford Reagent

Protein Analysis



Mass Spectrometer
**TSQ Altis™ Triple Quadrupole
Mass Spectrometer**



Chemiluminescence Imaging System
Fusion Series



Multimode Microplate Reader
Varioskan LUX



Microbial Culture

Successful incubation is an essential step in your microbiology workflow. Our microbiological incubators are designed with your samples in mind to produce results you can count on. Talk to us about our microbial analysis equipment, including colony counter and microscopes, to complete your microbiology workflow.



Growth & Analysis



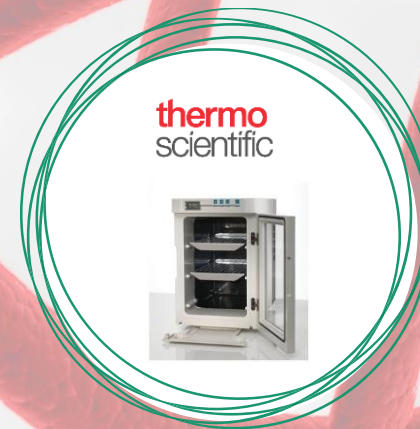
Automated Spiral Plater
Easy Spiral Plater



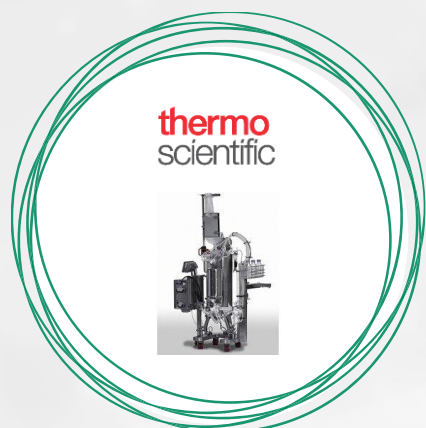
Dilutor
Diluflow



Colony Counter
Interscience Scan Station
Real Time Automated Incubator and Colony Counter



Microbiology Incubator
Heratherm™ Compact
Microbiological Incubators



Fermenter
HyPerforma™ Single-Use Fermentor



Centrifuge
Sorvall LYNX 6000 Superspeed Centrifuge



Biological Microscope
B-293pli



Multi-channel Bioreactor
RTS-8



Cell Culture

Cells are supplied with essential nutrients and grown in specialized vessels and incubators. Fisher Scientific provides solution for the complete cell culture workflow, including cell growth, collection, storage, and analysis.



Growth



Biosafety Cabinet
1300 Series Class II



CO2 Incubator
Forma™ Steri-Cycle™ i160

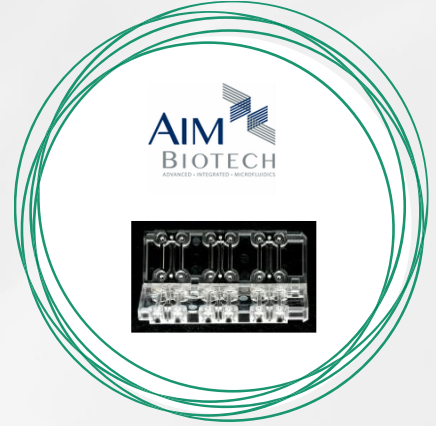


Centrifuge
Sorvall™ BIOS 16 Bioprocessing Centrifuge

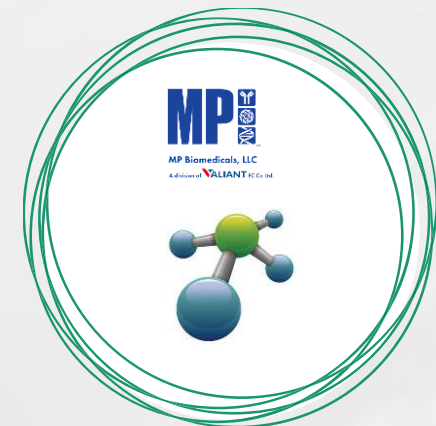
2D and 3D Cell Culture



2D Cell Cultureware
Fisherbrand Cell Cultureware



3D Cell Cultureware
3D Cell Culture Chip



Culture Media & Reagents

Analysis



Multimode Microplate Reader
Varioskan LUX



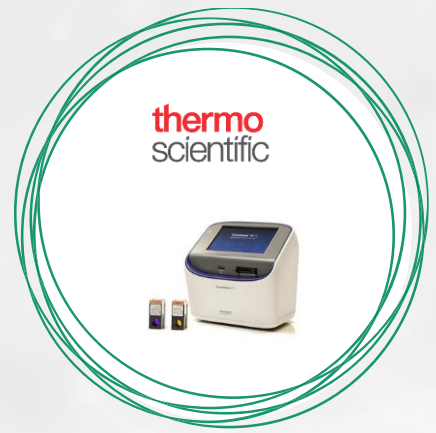
Biological Microscope
B-293pli



Inverted Microscope
IM-5



Fluorescence Microscope
B-1000FL-LED



Cell Counter
Countess



Animal Imaging

Many biological studies employed mouse as model animal. Fisher Scientific supplies humanized mouse and animal imaging solution.





Animal Imaging System
Newton



Model Animal
HiMice



Laboratory Animal Science
Braintree Scientific



Product Highlights





Cryopreservation Systems & Accessories



Cold Storage



TSX Series Refrigerators



TSX Series Freezers



Wireless Monitoring Systems

[Contact us for more information](#)





Freeze Dryer

Lyophilization of samples is achieved through the removal of moisture. This is utilized to keep products stable at room temperature, extend shelf life of products, or simply to dehydrate samples for later use. Freeze Dryers utilize sublimation (solid to gas transition), temperature, and pressure to allow efficient drying of samples.

[Contact us for more information](#)



CLEANROOM PRODUCTS

One-stop Solution

- Training of cleanroom personnel
- Gowning room concept
- Creation of cleaning, disinfection and hygiene plans
- Logistic services



Reusable Garments

- Garment Concepts
- Garments
- Under Garments



Wipers and Swabs

- Dry Wipers
- Pre-wetted Wipers
- Sterile Wipers
- Swabs
- Dispenser Systems



Disposable Garment

- Coveralls and Coats
- Hoods, Beard Covers and Facemask
- Overshoes
- Aprons and Sleeves



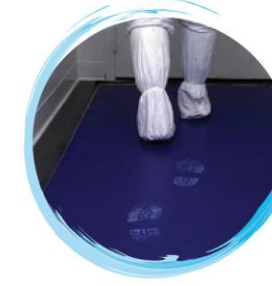
Cleaning and Disinfection

- Cleaning Equipment
- Vacuum Cleaner
- Detergents
- Disinfectants (sterile/non-sterile)



Gloves

- Disposable Cleanroom Gloves
- Sterile Gloves
- Protective Gloves
- Textile Gloves
- Boxed Gloves



Mats and Flooring

- Permanent Mats
- Flooring
- Peel-off Mats



Equipment

- Gowning Room Equipment
- Utility Carts
- Chairs



Cleanroom Stationary

- Cleanroom Paper
- Cleanroom Notebook
- Cleanroom Pens & Markers

[Contact us for more information](#)

SAFETY PRODUCTS

One-stop Solution

- On-site safety consultancy service
- Respirator fit testing and training
- Safety products recommendation



Eye and Face Protection

- Safety Eyewear
- Polycarbonate or Acetate Faceshield



Head Protection

- Helmet
- Bump Caps



Spill Control and Containment

- Absorbent pads, pillows, booms
- Agents, Neutralisers



Hazardous Material Storage

- Flammable Cabinets
- Corrosive Cabinets



Body Protection

- Chemical Disposable Coveralls
- Chemical Reusable Coveralls



Respiratory Protection

- Disposable Facemask
- Respirators
- Powered Respirators
- Airline Systems
- SCBA



Foot Protection

- Safety Shoes (S1, S1P, S2, S3)



Hand Protection

- Disposable
- Chemical Resistance
- Cut Resistance
- Thermal
- Cryogenic

[Contact us for more information](#)



One Source . Infinite Solutions

Your complete lab resource



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