



Advanced Solutions In Medical Laboratories
Transforming the future of healthcare





Thermo Fisher Scientific Mission

Thermo Fisher Scientific provides an extensive range of healthcare solutions, supporting the essential areas of clinical and anatomical pathology. Our sourcing and supply chain services ensure you have the right products at the right place at the right time. Our mission is to enable our customers to make the world healthier, cleaner and safer.



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, is dedicated to providing 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

CONSTRUCTION



ACQUISITION



OPERATIONS



LAB DESIGN AND ENGINEERING

- Needs Analysis/Workflow Design
- Service Requirements (e.g., utilities, gas distribution systems [GDS])
- Furniture/Fixed Equipment (FFE)
 - Fume Hoods
 - Instruments
 - Workstations
- Application workflow product mapping

PROCUREMENT AND SUPPLY



- 11,000+ Suppliers
- 1.2 Million+ Products
- Consumables
- Chemicals
- Equipment
- Furniture
- Fume Hoods
- Instrumentation
- New Lab Start-up Program

LOGISTICS



- Export Packaging/Documentation
- Order Consolidation
- Onsite Receiving
- Quality Control
- Regulatory Compliance
- 40 Warehouses Worldwide

INSTALLATION AND COMMISSIONING



- Site Preparation
- Onsite Supervision
- Installation of Fixed Furniture and Equipment
- Gas Distribution Systems (GDS)
- Laboratory Information Management Systems (LIMS)
- Training

CONTINUED SUPPORT



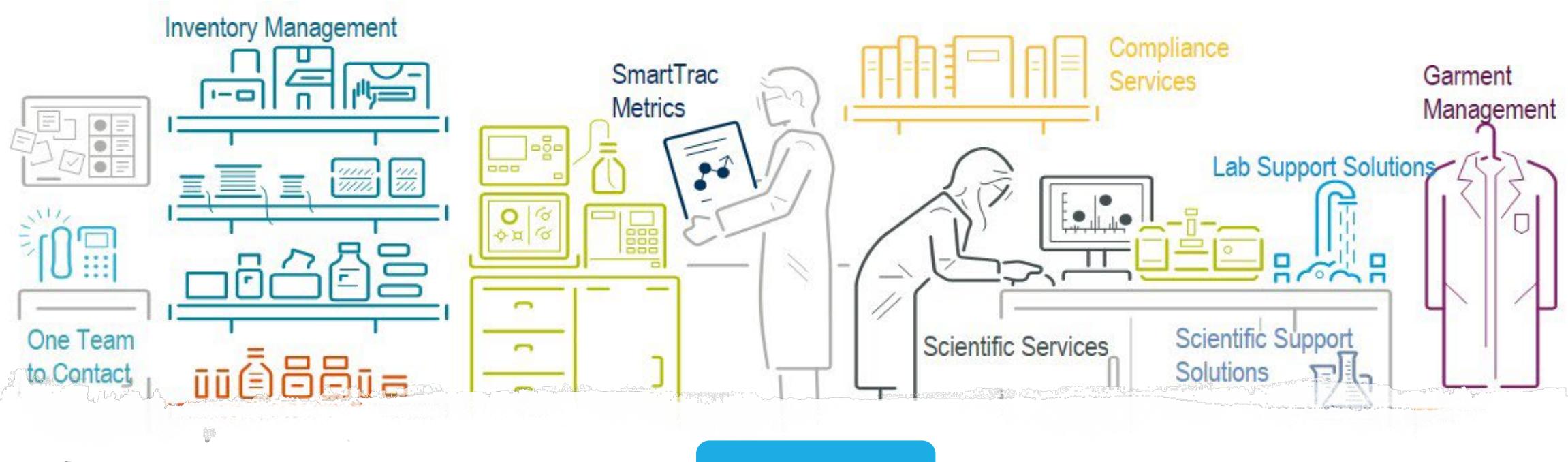
- E-commerce Solutions
- Supply Chain Management
- Support Services
 - Chemical Management
 - Order Management
 - Stockroom Management
- Warranty Support
- Ongoing Training
 - Seminars
 - Workshops

PROJECT MANAGEMENT

DEDICATED PROJECT TEAM • EXPERIENCE IN ALL GEOGRAPHIC MARKETS • FINANCIAL SERVICES • TRACK TIME AND BUDGETS



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

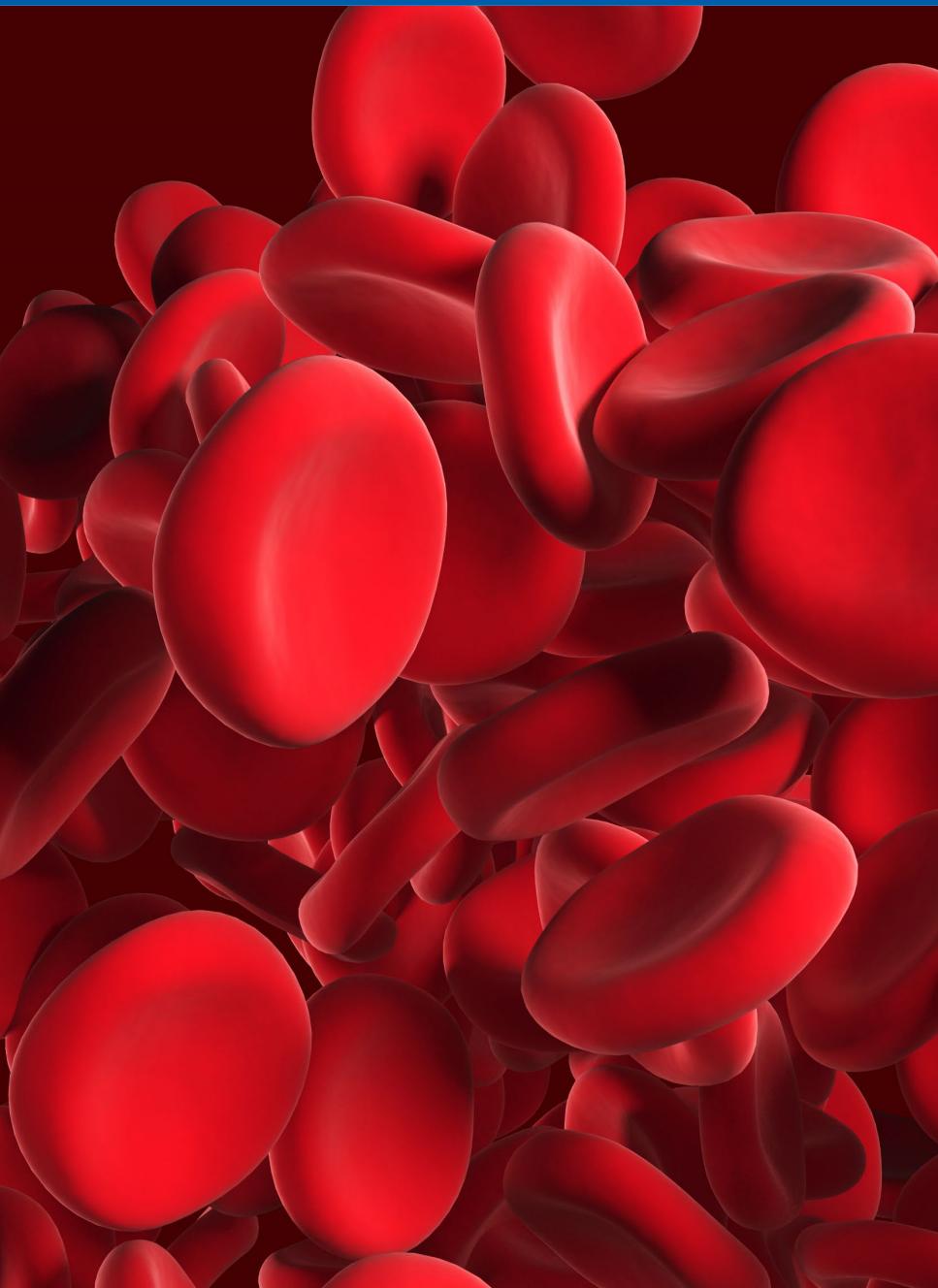
[Find Out More](#)



A medical laboratory or clinical laboratory is a laboratory where pathology tests are done on clinical specimens in order to obtain information for the purpose of disease diagnosis, treatment, and/or prevention. Medical laboratories vary in size and complexity. They are located within hospitals, clinics, or exist as stand-alone laboratories.

Medical laboratories are generally divided into two specialties:

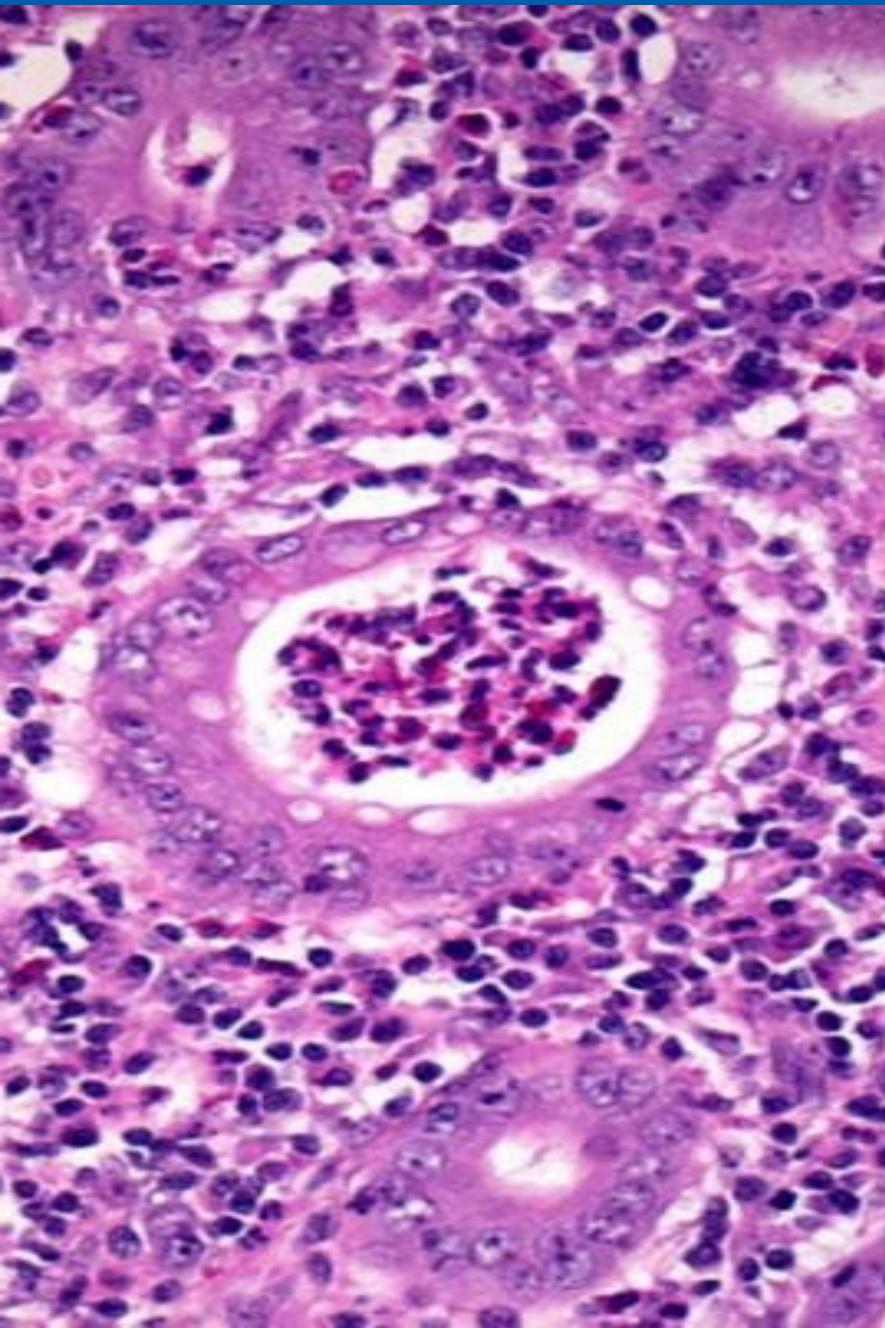




Clinical Pathology

- Clinical pathology deals with the measurement of chemical constituents of blood, urine and other bodily fluids. It is divided into many sub-specialties, including clinical biochemistry, clinical microbiology, hematology, blood banking and molecular pathology.
- Clinical biochemistry: Most laboratories employ highly automated systems to run clinical biochemistry tests, including renal function, liver function, glucose, uric acid, lipid profile, tumor markers and many others.
- Clinical microbiology is concerned with infectious diseases caused by bacteria, fungi, parasites, viruses, and prion.
- Hematology studies diseases of blood components, such as blood cells, hemoglobin, bone marrow, platelets, spleen, coagulation and others.
- Blood bank deals with the management of donated blood for transfusion purposes.
- Molecular pathology is a new and rapidly growing field of pathology; it focuses on the diagnosis of diseases by means of genomics and proteomics.



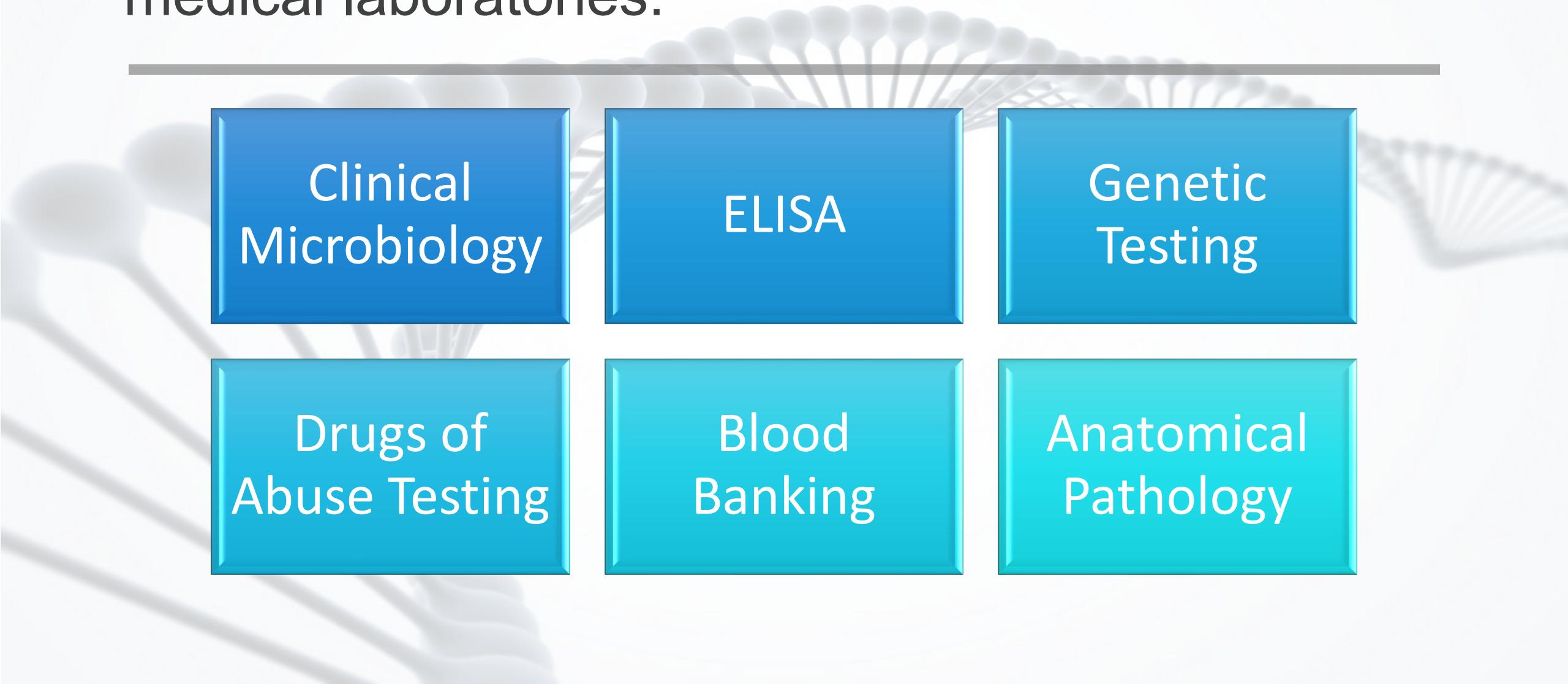


Anatomical Pathology

- Anatomical pathology studies the effect of disease on the structure of body organs, both as a whole and microscopically. There are two main sub-specialties within anatomical pathology, namely histopathology and cytopathology (cytology). Histopathology examines tissues (e.g. sections of tumor), while cytopathology examines free cells (e.g. fine-needle aspiration) or fragments of tissues. The specimens are generally stained (e.g. with dyes or antibodies) for cellular components followed by microscopic examination.



Our solutions for commonly used techniques in medical laboratories:



Clinical
Microbiology

ELISA

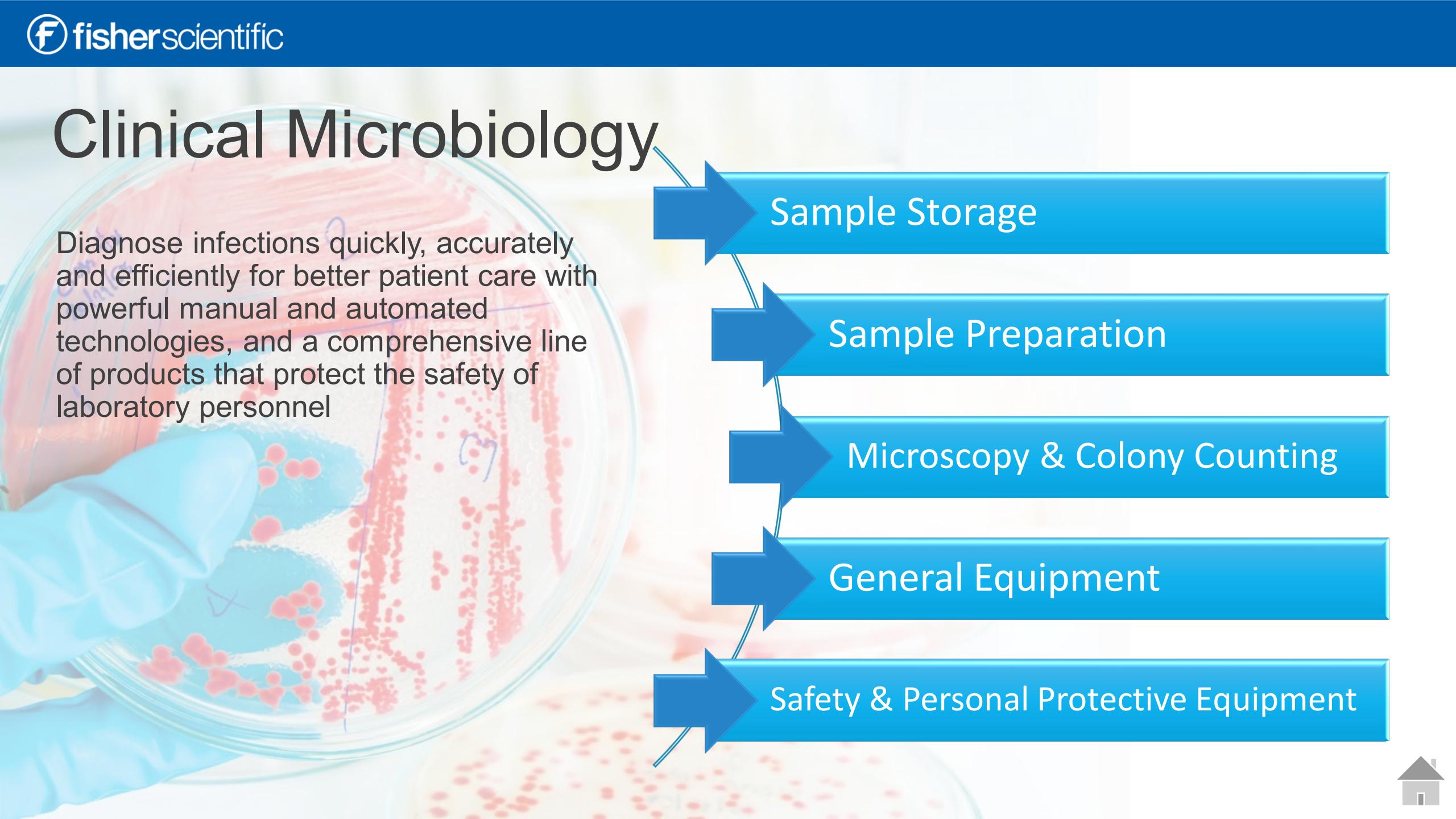
Genetic
Testing

Drugs of
Abuse Testing

Blood
Banking

Anatomical
Pathology

Clinical Microbiology



Diagnose infections quickly, accurately and efficiently for better patient care with powerful manual and automated technologies, and a comprehensive line of products that protect the safety of laboratory personnel

Sample Storage

Sample Preparation

Microscopy & Colony Counting

General Equipment

Safety & Personal Protective Equipment

Sample Storage

Ensure your samples and reagents are properly labeled and stored at the appropriate temperature. Adding in temperature monitoring system to safeguard and data log critical equipment parameters. Knowing that in the event of a power or mechanical failure, you'll be notified right away.



Labeling Equipment



Cold Storage Media & Reagent Storage



Undercounter Storage



High-Performance -20°C Manual Defrost Freezers



Conical Tubes



Temperature Monitoring

Sample Preparation (Bacteria culturing and plating)

Using the right equipment ensures personnel, environment and sample safety. Automated diluter and plater improve efficiency, delivering timely and consistent results to your patients .



Glove Box



Biosafety Cabinet

Aseptic Containment
Enclosure

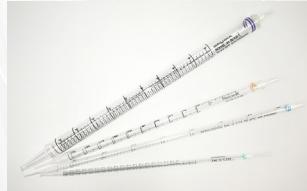
Automated Spiral Plater



Dilutor



Petri Dish



Serological Pipettes



General Purpose Centrifuge



Shaking Incubator

Incubators
CO₂ Incubators
Cooling Incubators

Automated Incubators



Densitometer



Bacti-Cinerator

Inoculating
Loops



Biosafety Cabinet



Shaking Incubator



Incubator



CO₂ Incubator



Cooling Incubator



thermo
scientific

thermo
scientific

thermo
scientific

thermo
scientific

thermo
scientific

Microscopy & Colony Counting

Analyze microbes with our manual or automated colony counters and wide range of microscopes.



Slide Warmer



Microscope



Real-time Incubator and Colony Counter



Colony Counter

General Equipment



Pipettes & Tips



pH Meter



Analytical Balance



Vortex Mixer



Water Bath



Pipet Fillers



Autoclave



Glassware Washer

ELISA

ELISA (enzyme-linked immunosorbent assay) is a plate-based assay technique designed for detecting and quantifying substances such as peptides, proteins, antibodies and hormones. We provide instrumentation solution for manual operation or modular automation.



Sample Preparation

Analysis

General Equipment

Safety & Personal Protective Equipment



Sample Preparation

Our portfolio of microplate instruments offers a variety of liquid handling instruments and supporting microplate technology products for medical laboratories.



Microplate Dispensers



Microplate Washer



Aspirator



Microplate Incubator



Microplate Shaker

Analysis

Our dedicated and multimode readers provide flexibility, performance and ease-of-use for a variety of assays, whether you need to measure photometry, fluorometry, luminometry, time-resolved fluorometry or AlphaScreen. The modular and expandable automation solution provides the possibility for future laboratory expansion.



Microplate Readers



Automation

General Equipment & Consumables



Pipettes & Tips



Microplate Centrifuge



Labeling Equipment



Microplates

Genetic Testing

Clinical laboratories offering genetic testing face ever-changing requirements and demands. To be responsive, laboratories need to have flexible solutions and options to suit their individual needs. We offer a variety of equipment, instrument, and consumables that can help accelerate routine clinical sample preparation and analysis while preserving sample integrity and preventing cross-contamination.



Sample Preparation

Extracting DNA/RNA from any sample type with magnetic separation technology, followed by determining the concentration and quality of the extracted DNA/RNA with micro-volume spectrophotometer.



Sample Homogenizer



Nucleic Acid Extraction System



Microcentrifuge



Spectrophotometer
(Microvolume)

Analysis

Setting PCR or sequencing reactions under the safety of our PCR cabinet with a built-in UV circulator. A stand-alone UV-circulator will also help eliminate air-borne DNA/RNA/microbes, thus preventing cross-contamination and infection. We offer compact electrophoresis and real-time PCR solutions suitable for medical laboratories in which space is limited and patient samples arrive in small batches.



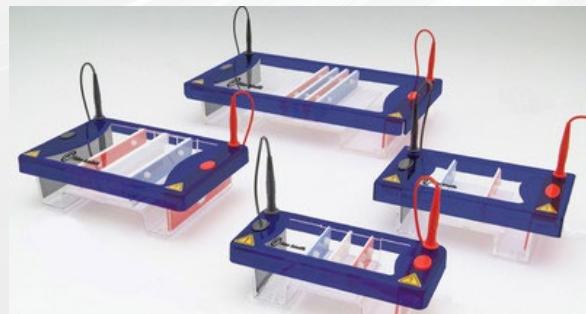
PCR Cabinet



UV Circulator



qPCR



Electrophoresis



Gel Documentation

General Equipment & Consumables



Labeling Equipment



Dry Heating Block



Pipettes



Pipette Tips
(Molecular)



Molecular Standards
& Quality Controls



Biochemicals &
Electrophoresis
Consumables



Extraction Kits



qPCR Plastics



qPCR Kits



EZView Stain

Drugs of Abuse Testing

In many forensic investigations there is a requirement to analyze drugs of abuse (DoA) in human bodily fluids. In many cases, a reliable and affordable methodology is needed. We provide a complete solution using our UHPLC-MS/MS or GC-MS instrument, and equipment for sample preparation when using conventional Thin-Layer Chromatographic (TLC) method.



Sample Preparation

Analysis

Consumables

Safety & Personal Protective Equipment



Sample Preparation

As part of the drugs of abuse extraction process, the extracted sample eluent is evaporated to dryness using our centrifugal evaporators.



Labeling Equipment



Vacuum Pump



Vacuum Manifold



Centrifugal Evaporator

Analysis

Analyze the drugs of abuse using our UHPLC-MS/MS or GC-MS instrument, Thin Layer Chromatographic (TLC) documentation systems, and drugs of abuse immunoassays.



TLC Viewer



TLC Documentation System



Gas Chromatograph
(GCMS)



LCMS/MS



Drugs of Abuse
Immunoassays



Automated Drugs of
Abuse Testing Solution

Consumables



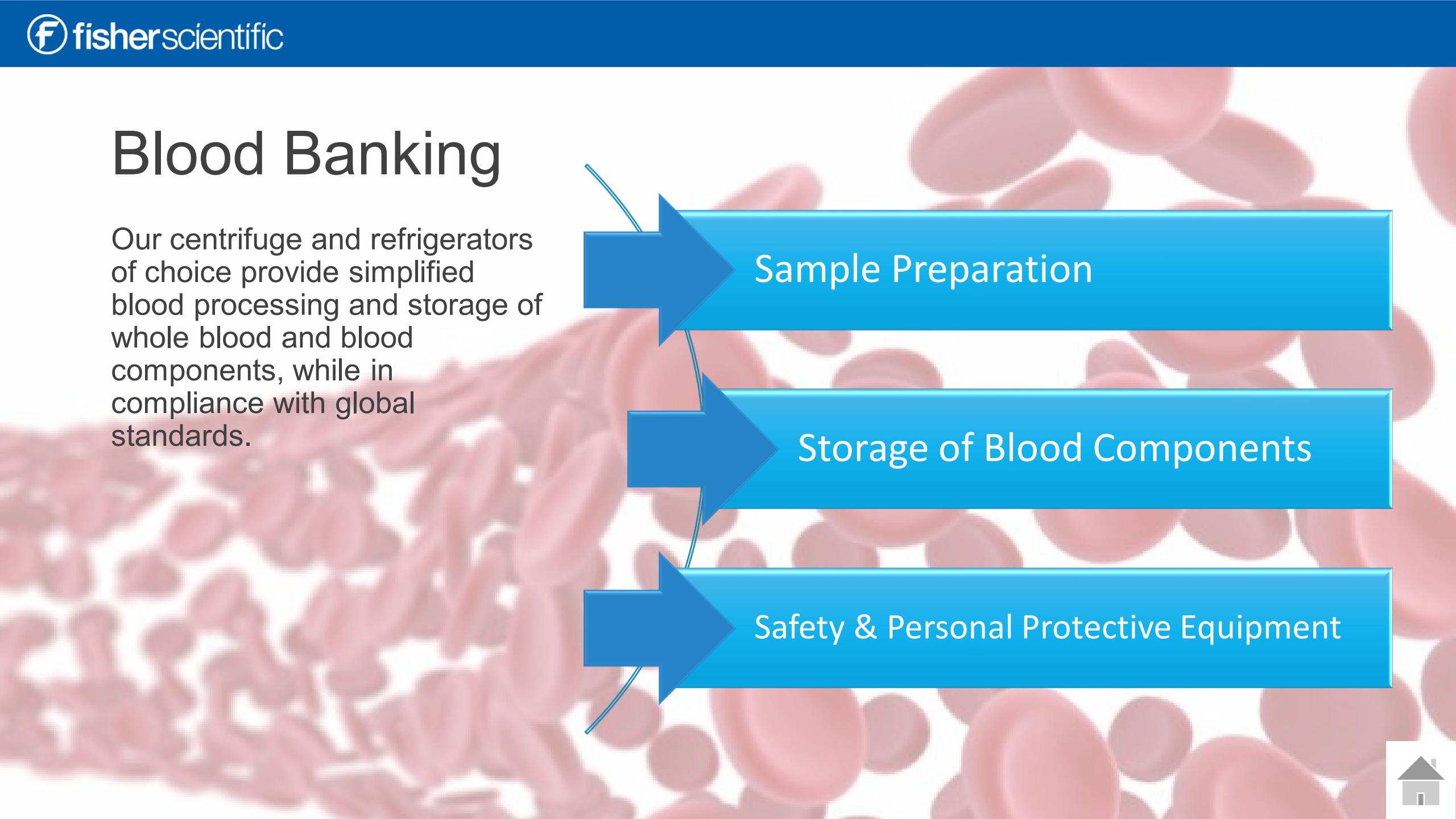
LC Columns & Other Chromatography
Consumables



GC Columns & Other Chromatography
Consumables

Blood Banking

Our centrifuge and refrigerators of choice provide simplified blood processing and storage of whole blood and blood components, while in compliance with global standards.

A background image showing a dense cluster of red blood cells against a white background.

Sample Preparation

Storage of Blood Components

Safety & Personal Protective Equipment



Sample Preparation

We have a centrifuge for almost any application. Our Thermo Fisher Cryofuge Blood Banking centrifuge can process 16 blood bags at once.



Blood Banking Centrifuge
(Blood Bags)



Microcentrifuge
(With Gel Card Rotor)



Pipettes

Storage of Blood Components

Store whole blood and blood components while meeting the strict AABB, ANRC and FDA requirements. Wireless temperature monitoring system ensures sample integrity and peace of mind.



High-Performance Blood Bank Refrigerators



Ultra-Low Freezers



Temperature Monitoring



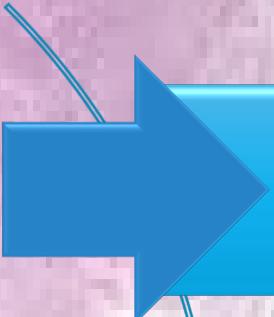
Plasma Freezer



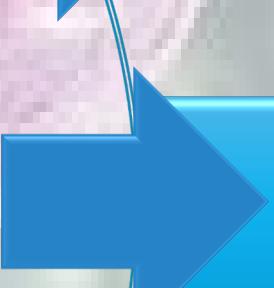
Platelet Incubator

Anatomical Pathology

We provide a complete line of anatomical pathology equipment and consumables, from specimen collection to diagnosis. Our products include histology products and services from gross dissection and tissue processing to slide staining and coverslipping. Laboratory equipment and consumables to support the pre-analytical phase of the testing process in cytology are also available.



Anatomical Pathology



Consumables



Safety & Personal Protective Equipment



Pathology Instruments

Thermo Fisher Scientific provides a complete line of anatomical pathology equipment and consumables, from specimen collection to diagnosis.



Cryostat



Tissue Processor



Embedding Workstation



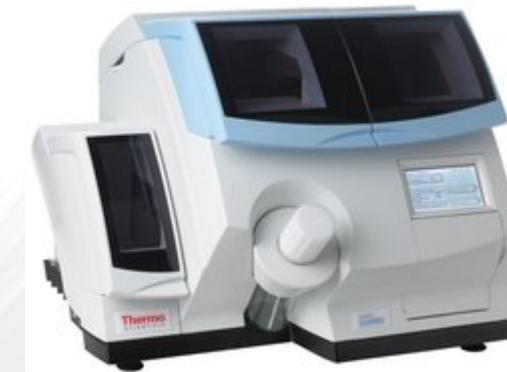
Rotary Microtome



Cassette Printer



Automated Slide Stainer



Coverslipper



Tissue Block Management System

Consumables



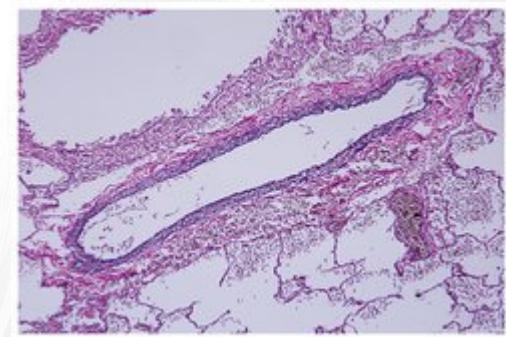
Xylene



Cassettes



Glass Slides



Stains



Protecting What Matters Most

Your people and the work they do are your biggest investments. Help keep them safe and productive with the products you need to prepare, prevent, protect, and respond.

Safety & Personal Protective Equipment

[Apparels](#)[Gloves](#)[Eyewear](#)[Mask](#)

Apparels



Bioclean-D Lab Coat



Kimtech Science A7 Lab Coat



Protect

Keep your people safe with all the personal protective equipment and apparel you need.

[Protect Your People](#)

Gloves



HandPRO Nitrile Exam Gloves



KIMTECH PURE and
KIMBERLY-CLARK
Exam Gloves



Protect

Keep your people safe with all the personal protective equipment and apparel you need.

Protect Your People



LabServ Nitrile Exam Gloves

Eyewear



Kimberly Clark Professional
V80 Revolution OTG Safety Goggle



Nitritex BioClean
Clearview Autoclavable Goggles



Protect

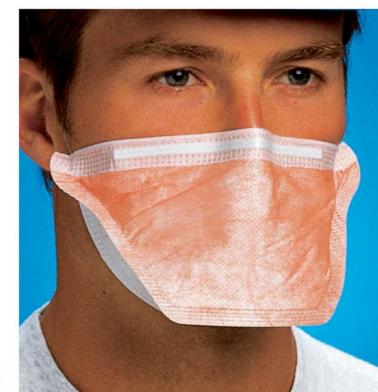
Keep your people safe with all the personal protective equipment and apparel you need.

[Protect Your People](#)

Mask



Kimtech M3 Sterile Face mask



Kimberly Clark Professional PFR N95 Mask



Protect

Keep your people safe with all the personal protective equipment and apparel you need.

Protect Your People



Dupont Sierra Face mask



Nitritex BioClean
MEA Non-sterile Looped Facemask



Nitritex BioClean
MTA Non-sterile Looped Facemask



Nitritex BioClean
DB POUCH-STYLE FACEMASK

One Source . Infinite Solutions

Your complete lab resource



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