

# Supporting Clinical Laboratories

Reliable Equipment. Expert Services.  
Proven Performance.



# Your Partner in Clinical Laboratory Excellence

Precision and reliability are essential in clinical diagnostics.

At Mason Technology, we supply high-performance diagnostic and analytical equipment to clinical laboratories across Ireland. Backed by a nationwide team of expert service engineers, we deliver calibration and validation services that support accuracy, compliance, and optimal patient outcomes.

The following pages highlight a selection of our solutions, grouped by common clinical applications including microbiology, pathology, haematology, virology, biochemistry, immunology, and blood banking.

## Microbiology

Ensuring optimal growth conditions and safe sample handling

**Anaerobic Cabinets:** Create oxygen-free environments for culturing anaerobes

**CO<sup>2</sup> Incubators:** Regulate CO<sup>2</sup> and humidity for sensitive cell cultures

**Aerobic Incubators:** Support microbial growth in ambient conditions

**Autoclaves:** Sterilise media, tools, and biological waste

**Microscopes:** Enable microorganism identification and analysis

**Pipettes:** Ensure accurate dispensing of reagents and cultures during microbiological assays

**Temperature Monitoring Systems:** Track and record conditions for compliance

## Cellular Pathology

Enabling accurate tissue preparation and digital diagnosis

**Microscopes:** Allow detailed examination of stained tissue sections under various magnifications

**Digital Slide Scanners:** Digitise slides for review and archiving

**Paraffin Ovens:** Heat and maintain wax for tissue embedding

**Tissue Flotation Baths:** Flatten sections before slide mounting

**Incubators:** Maintain temperature for staining and fixation

**Centrifuges:** Separate sample components ahead of histological staining

**Bench Scales:** Weigh reagents and materials in pathology workflows

## Virology

Equipping the laboratory for sensitive viral detection and analysis

**Microscopes:** Visualisation of cytopathic effects and cell changes during infection

**BioSafety Cabinets:** Protect users and samples from contamination

**Microplate Readers:** Detect signals in ELISA and similar assays

**Spectrophotometers:** Quantify DNA, RNA, or proteins

**PCR Machines:** Perform amplification of viral RNA or DNA for diagnostics

**Pipettes:** Deliver precise volumes for assay setup

**Incubators:** Optimise conditions for growth or assay development

**Centrifuges:** Support nucleic acid extraction and sample purification



Robotic Sample Tube Sorting



Blood Refrigeration



Blood Transport Boxes



Centrifugation



Microplate Readers

## Biochemistry

Providing essential tools for sample integrity and consistency

**Laboratory Refrigeration:** Store enzymes, reagents, and patient samples at controlled temperatures

**Purified Water Systems:** Provide high-purity water for analysis

**Pipettes:** Support precise and repeatable sample handling during assay setup

**Centrifuges:** Enable plasma or serum separation prior to analysis

## Blood Banking

Maintaining integrity and traceability of blood and plasma products

**Blood Transport Boxes:** Control temperatures during transport of blood

**Blood Bank Refrigerators:** Store blood products under regulated conditions

**Plasma Storage Freezers:** Deep-freeze storage for plasma units

**Ultra-Low Freezers:** Preserve blood components at -80 °C

**Contact Shock Freezers:** Snap-freeze plasma to retain clotting factors

**Rockers:** Gently agitate blood bags to prevent clotting

**Centrifuges:** Prepare components such as red cells, plasma, and platelets from whole blood

**Incubators:** Provide warming for thawing or preparing products for transfusion

**Temperature Monitoring Equipment:** Ensure compliant storage conditions

**ASAP Gloves:** Provide reliable barrier protection during sample handling and transfusion workflows

## Haematology

Supporting blood analysis and cellular investigations

**Benchtop Tube Sorters:** Organise blood tubes by cap colour or barcode

**Microscopes:** Aid in the analysis of blood smears and detection of abnormal cell morphology

**Laboratory Refrigeration:** Store reagents and blood samples

**Centrifuges:** Separate blood components such as plasma or serum

**Shakers:** Mix samples gently and consistently

## Immunology

Facilitating immune assay workflows and antibody-based testing

**Fluorescent Microscopes:** Visualise tagged antibodies or cells

**Microplate Readers & Washers:** Automate immunoassay detection and cleaning

**Pipettes:** Enable consistent and accurate liquid handling for assay precision

**Hotplates:** Heat samples for activation or retrieval

**Incubators:** Maintain temperature during antibody reactions

**Centrifuges:** Separate serum or plasma for downstream immunological testing



Anaerobic Cabinet



Clinical Microscopes



Slideview DX Pathology Slide Scanner



Manual Pipettes

# Trusted Support for Clinical Labs: Reliable Solutions for Confident Diagnostics

Clinical laboratories operate under constant pressure: fast turnaround times, strict compliance requirements, and no room for error.

Mason Technology supports your success with high-performance laboratory equipment and responsive technical services you can rely on.

## Our Technical Support Services Include:

- Installation and commissioning of new equipment
- Calibration and validation to regulatory standards
- Preventative maintenance and responsive repair support
- Temperature mapping and monitoring for compliance
- Service support for Mason Technology and third-party equipment

## Why Partner with Mason Technology?

- **Specialised Expertise:** Our team includes 50+ manufacturer-trained service engineers and industry-focused sales specialists with scientific or engineering backgrounds. Together, they deliver expert guidance and tailored solutions to meet your clinical needs.
- **Quality & Validation:** A dedicated in-house team ensures all services meet the highest standards, giving you complete peace of mind.
- **Regulatory Compliance:** Our services align with GxP, 21 CFR Part 11, and other relevant industry standards.
- **Nationwide Reach:** A responsive service network offering local support and fast turnaround times.
- **Flexible Support Solutions:** Supporting both Mason Technology and third-party equipment to keep your systems running reliably.



## For more information:

Call or email us using the details below.  
Or scan the QR code to explore our clinical solutions, technical services, and the HSE frameworks we're listed on.

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