

EMBARK ON THE REMARKABLE

CELL AND GENE THERAPY LABORATORY EQUIPMENT



Advancing cell therapy by minimizing roadblocks

Scientists rely on Thermo Scientific™ cell and gene therapy lab products for reproducible yields, improved user experience, and streamlined workflows — advancements in technology that help generate breakthroughs in cell therapy. And the discoveries they make could help patients overcome historically terminal events.

10–20 therapies

As many as 10-20 new therapies could be FDA approved each year, starting in 2025.

[U.S. Food and Drug Administration](#)

>1,000 developers

Targeting oncology, neurology, viral diseases and genetic dysfunctions, more than 1,000 cell and gene therapy institutions are developing therapies across the world at any given time.

[Alliance for Regenerative Medicine](#)

\$12B

Statistics show an expected increase in the cell and gene therapy market from \$8B in 2018 to over \$12B in 2025.

[Genetic Engineering and Biotechnology News](#)

Thermo Scientific™ Laboratory Equipment Cell Therapy Systems (CTS™) Series

Providing you with proven solutions for commercial cell and gene therapy manufacturing

From lead scientists to process engineers and project managers, there is a need for tools built by scientists for scientists with advanced capabilities that address core challenges in key areas:

- Capacity
- Cell viability
- Contamination control
- Cleaning/disinfecting
- Documentation



Thermo Scientific™ Herasafe™ 2030i Biological Safety Cabinets CTS™ Series

- Large internal work area and fully opening front sash Available in four sizes: 0.9 m, 1.2 m, 1.5 m and 1.8 m
- Thermo Scientific™ SmartFlow™ Plus technology helps maintain protection and mitigate contamination risk
- Compensated Cross Beam UV provides consistent disinfection cycles
- On-board data/event logging and embedded capability to provide cloud-based connectivity¹

Learn more at thermofisher.com/ctbsbc



Thermo Scientific™ General Purpose Pro Centrifuges CTS™ Series

- TX-1000 swinging bucket rotor increases capacity
- Thermo Scientific™ SMARTSpin™ rotor management
- Thermo Scientific™ ClickSeal™ biocontainment lids help reduce contamination risk
- Thermo Scientific™ Fiberlite™ rotors offer increased chemical resistance
- On-board tracking improves documentation

Learn more at thermofisher.com/ctscentrifuges



Thermo Scientific™ Heracell™ Vios™ CR CO₂ Incubator CTS™ Series

- Stackable incubator with either 165 L or 255 L capacity. Thermo Scientific™ CultiMaxx™ Shelving Systems available to help maximize space for large vessel types (255 L model)
- Active air circulation from in-chamber fan helps deliver homogeneous conditions for consistent cell viability
- Active Particle Control System with 3rd party certified ISO Class 5 and GMP grade A/B cleanroom compatibility
- Brushed stainless steel exterior, electropolished interior, 180° C sterilization cycle and IP54 compliant
- 4-20mA data output for interfacing with external data collection systems

Learn more at thermofisher.com/cleanroomCO2



Thermo Scientific™ Forma™ Steri-Cult™ CO₂ Incubator CTS™ Series

- Largest stackable chamber option expands capacity
- Active air circulation from in-chamber fan helps deliver homogeneous conditions for consistent cell viability
- HEPA filtration and a separate water reservoir help reduce contamination risk
- Electropolished interior and proven 12-log sterilization provide easy cleanability
- 4-20mA data output for interfacing with external data collection systems

Learn more at thermofisher.com/ctsforma



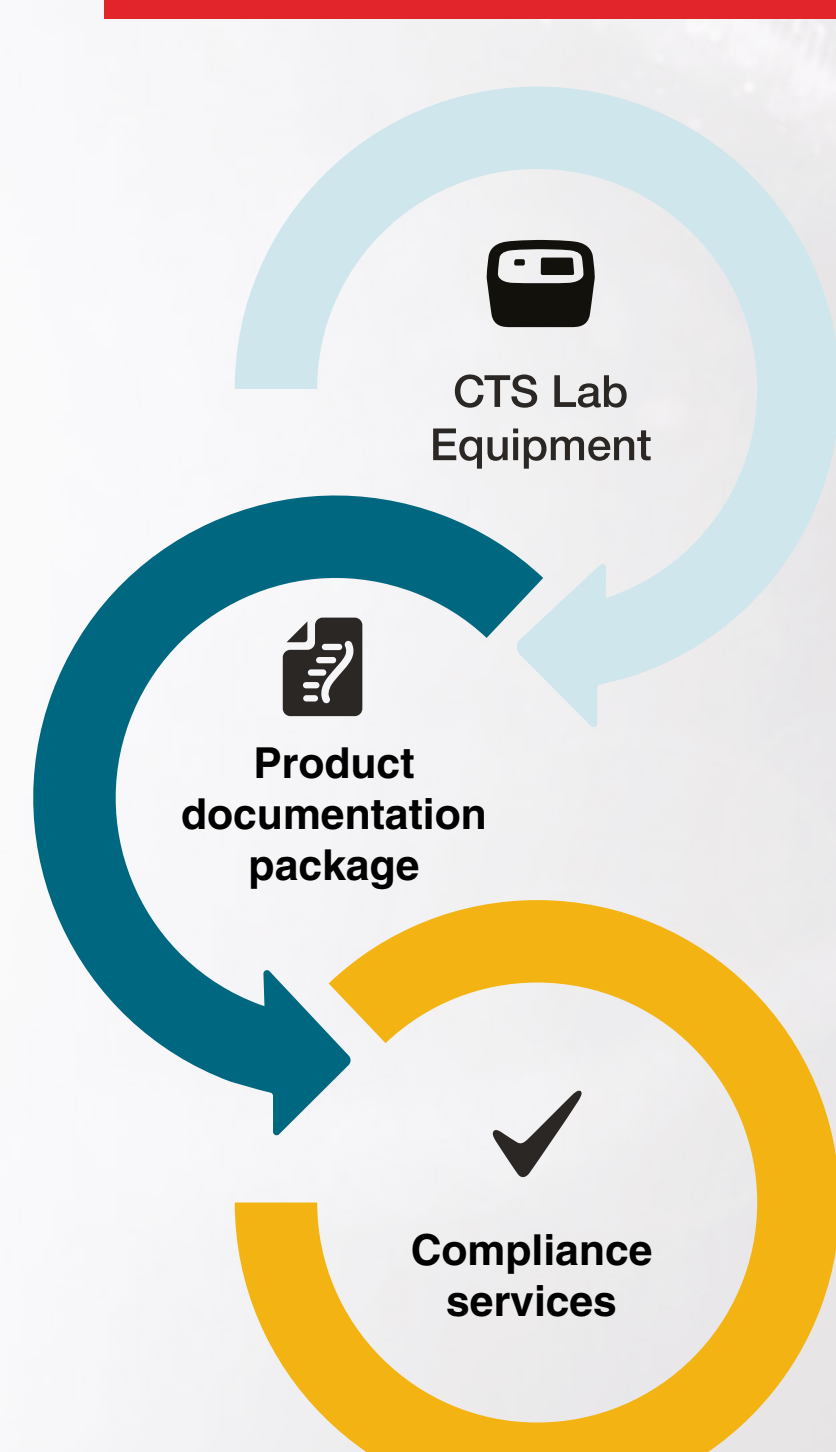
Thermo Scientific™ CryoMed™ Controlled-Rate Freezers with OPC UA

- Available in three capacities: 17 L, 34 L, and 48 L
- Factory preset and user-customizable freezing profiles allow users to determine the rate of freezing based on the cell type
- Powder-coated stainless-steel exterior and interior are compatible with vaporized hydrogen peroxide (VHP) cleaning procedures
- Integrated touchscreen user interface for logging access, events and featuring a USB port for easy export of data (.pdf, .csv, and .run files). PDF file export supports 21 CFR part 11 requirements. Onboard Open Platform Communications Unified Architecture (OPC UA) server—ethernet only.

Learn more at thermofisher.com/cryomed



Cell Therapy Solutions



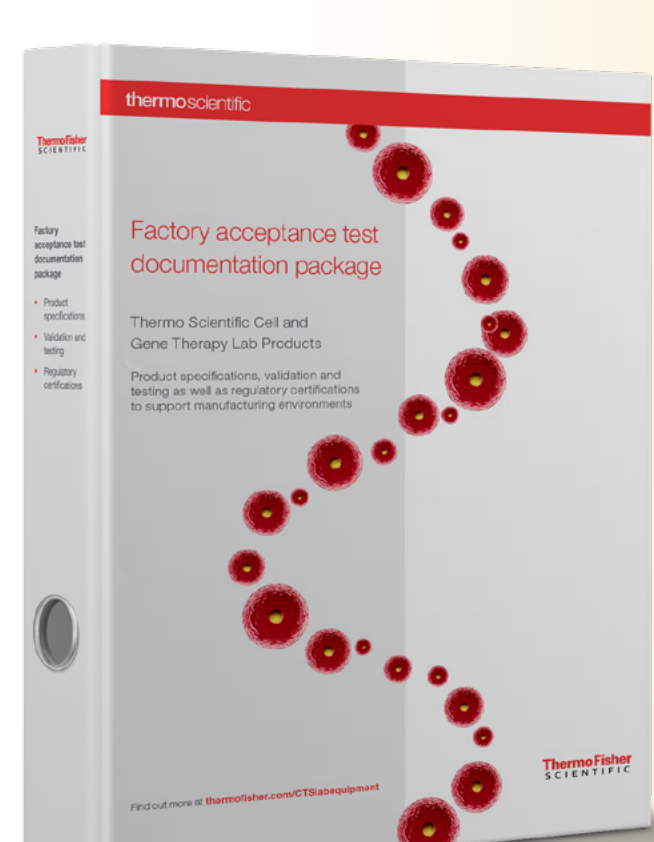
Products enhanced with compliance, support, and field services

Thermo Scientific lab equipment Cell Therapy Systems (CTS) Series support your GMP and clean room need for cell and gene therapy — from CO₂ incubators and centrifuges to cold storage, biological safety cabinets, and beyond — with innovations supported by high-quality materials and enhanced features and an extensive documentation package including certificates and protocols. Our on-site compliance services² are available to help ensure your laboratory equipment meets global standards and operates accordingly in your location and processes.

We can help you get up and running faster, stay compliant, support regulatory audits, and stay on schedule as you translate your cell therapy from discovery to clinical research and commercial manufacturing. With our technology and expertise we want to support you as you embark on the remarkable.

Product documentation package

Comprehensive documentation package including certifications and protocols to support a timely and rapid validation process.



Compliance services²

Unity™ Lab Services, as part of Thermo Fisher Scientific, offers on-site compliance services (calibration and qualification) that help ensure your laboratory equipment meets global standards and mitigates the risk of regulatory non-compliance.

With our services, you'll receive a full range of qualification capabilities that provide improved productivity and enhanced features and an extensive documentation package, a no-charge requalification³, and comprehensive documentation reports.

You'll have peace of mind knowing we're supporting your quality management systems, traceability, and audit readiness.

- Installation Qualification (IQ)
- Operation Qualification (OQ)
- Performance tests on product (e.g. cycle testing, temperature mapping)
- Calibration⁴



¹ Thermo Fisher Connect cloud services are currently available in the following countries: Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States.

² Compliance services are only available in select locations including the United States, Germany, France, the United Kingdom, Ireland, Spain, Portugal, Italy, Austria, Switzerland, Norway, Sweden, Denmark, Belgium and the Netherlands. For more information, contact your local sales or service representative.

³ Industry-exclusive, no-charge requalification. For terms and conditions, click [here](#).

⁴ Calibration services are available in select regions. Contact your local sales or service representative for more information.