



About Us

Advalab Scientific is a global manufacturer of laboratory equipment, serving research institutions, healthcare laboratories, pharmaceutical manufacturers, industrial quality control facilities, and scientific organizations worldwide. Our product portfolio is developed to support demanding laboratory applications while meeting internationally recognized quality and regulatory standards.

Each product is manufactured under the AD Series designation, reflecting a controlled engineering and manufacturing process from design and production through testing and final inspection. The portfolio includes thermal equipment, analytical equipment, biosafety and containment systems, clinical laboratory equipment, pharmaceutical testing equipment, and cold storage equipment designed for research, clinical, and industrial applications.

From CO₂ incubators, ultra-low temperature freezers, spectrophotometers, and stability test chambers to laboratory fume hoods and ice machines, Advalab equipment is designed to integrate into established laboratory workflows and support consistent operational performance across diverse applications.

Manufacturing operations are supported by internationally recognized quality systems, including ISO 9001:2015, ISO 13485:2016, ISO 17025:2017, CE marking, and Good Manufacturing Practice (GMP) compliance, providing documented quality management and regulatory alignment for laboratories and industrial facilities.

Mission

To manufacture laboratory equipment that supports research, clinical, pharmaceutical, and industrial laboratories worldwide through robust engineering, consistent performance, regulatory compliance, and dependable analytical results across critical laboratory applications.

Vision

To be a globally recognized manufacturer of laboratory equipment, advancing scientific research and industrial progress through engineering excellence, internationally recognized quality standards, regulatory compliance, and equipment designed to meet the evolving requirements of laboratories worldwide.

Six Engineering Standards That Define Our Equipment

01

Robust Engineering

Equipment is designed with industrial-grade materials, durable construction, and integrated protection features to support continuous operation in demanding laboratory and industrial environments.

02

Compliance by Design

Manufacturing processes are aligned with internationally recognized quality frameworks, including ISO 9001:2015, ISO 13485:2016, ISO 17025:2017, CE marking, and Good Manufacturing Practice (GMP), supporting documented quality and regulatory requirements.

03

Workflow-Oriented Design

Equipment incorporates intuitive digital interfaces, programmable operating modes, data logging capabilities, and connectivity features to integrate efficiently into established laboratory workflows and standard operating procedures.

04

Verified Performance

Published performance specifications are established through engineering validation and quality testing prior to final inspection, supporting consistent operation across laboratory applications.

05

Data Integrity

Equipment intended for regulated laboratory environments incorporates features that support electronic record management, user access control, and data traceability where applicable, aligning with established laboratory documentation practices.

06

User-Focused Engineering

Product development is guided by practical laboratory requirements, emphasizing ergonomic design, intuitive operation, simplified maintenance, and comprehensive technical documentation to support routine laboratory use.

Product Portfolio

Advalab manufactures a comprehensive range of laboratory equipment across research, clinical, pharmaceutical, environmental, and industrial applications. The portfolio includes centrifuges, water baths, fume hoods, medical refrigerators, incubators, ovens, freezers, spectrophotometers, stability chambers, and other laboratory equipment designed to support diverse scientific and quality control workflows.

Representative products include the High Speed Refrigerated Centrifuge, Low Speed Centrifuge, Digital Water Bath, Ducted Benchtop Fume Hood, Medical Refrigerators, and additional equipment across the complete product portfolio.



Thermal Management & Cold Storage Systems

Laboratory Refrigerator	Temperature-controlled storage from 2°C to 8°C with digital control, integrated safety alarms, and configurations for pharmaceutical, clinical, blood bank, and laboratory applications.
Laboratory Freezer	Upright and chest freezers operating from -25°C to -40°C, featuring high-performance insulation, digital temperature management, and secure storage for laboratory and pharmaceutical materials.
Ultra-Low Temperature Freezer	Storage down to -86°C using cascade refrigeration, multi-layer thermal insulation, and comprehensive monitoring systems for long-term preservation of biological and research samples.
Laboratory Chiller	Recirculating cooling equipment designed for controlled temperature regulation in reactors, analytical equipment, industrial processes, and laboratory applications.
Water Bath — Digital Digitally controlled water baths for incubation, serology, enzyme studies, and routine laboratory applications.	Water Bath — Analog/Circulating Analog, circulating, refrigerated, and oil bath models designed for stable thermal processing across research, quality control, and industrial laboratory applications.

Incubation, Growth & Environmental Control

CO₂ Incubator	Digital CO ₂ incubators with precise gas, temperature and humidity control; ideal for cell culture, tissue engineering and microbiology
Shaking Incubator	Orbital and linear shaking incubators with independent speed and temperature control for microbial cultures and biochemical reactions
Climate Simulation Incubator	Programmable multi-parameter incubation combining temperature, humidity, and light simulation for growth and stability studies
Digital Mould Incubator	Controlled environment mould cultivation for mycology, microbiology, and food science applications
Test Chamber — Stability Temperature and humidity stability chambers with programmable controllers, uniform airflow, and multiple testing modes including thermal cycling	Test Chamber — Environmental Climate, vibration, and shock testing chambers for product durability assessment in industrial and research environments

Centrifugation & Sample Separation

High Speed Refrigerated Centrifuge	High-speed refrigerated centrifuge with variable-speed operation up to 15,000 rpm, rapid pre-cooling, biosafety rotor options, advanced braking control, and touchscreen operation for temperature-sensitive sample processing.
Low Speed Centrifuge	Low-speed centrifuge with multiple rotor configurations, imbalance detection, automatic lid locking, and applications including blood separation, urine sedimentation, and cell isolation.

Refrigerated Centrifuge Range	Complete refrigerated centrifuge series for molecular biology, clinical diagnostics, biochemistry and pharmaceutical processing applications
Microcentrifuge	Compact bench-top microcentrifuges for rapid spin-down of micro volume samples; low noise, compact footprint

Safety, Containment & Clean Air Systems

Biological Safety Cabinet	Class A2 biosafety cabinets with laminar airflow; complete operator, sample and environment protection for microbiological work
Fume Hood — Ducted	ADD BF-508 Ducted Benchtop Fume Hood; 220V, high-flow; for forensic, academic and industrial chemical safety applications
Fume Hood — Ductless / PP Spray	Ductless and PP spray fume hoods for environments without exhaust ducting; carbon-filtered air recirculation
Laminar Airflow Cabinet	Vertical and horizontal laminar airflow cabinets for sterile product handling and contamination-sensitive workflows
Autoclave — Bench-top Portable and bench-top autoclaves for steam sterilization; GMP-validated horizontal models available for hospital, pharma and research	Glassware Washer High-performance automated glassware washing and drying; dual alarm system, digital display, advanced wind heating

Analytical, Optical & Spectroscopic equipment

Spectrophotometer	Visible, digital and double-beam spectrophotometers; extensive wavelength range, high-sensitivity detection, built-in calibration functions, interchangeable cuvettes
Flame Photometer	Na ⁺ , K ⁺ , Li ⁺ and other element detection with filter-based photometry; clinical, environmental and food science applications
Refractometer	Precise refractive index measurement for Brix, salinity, concentration; durable optical components, ergonomic field/lab design
Filtration System	Filtration apparatus for membrane, vacuum and pressure filtration; wide range of laboratory and industrial filtration needs

Measurement, Electrochemistry & Testing equipment

Conductivity Meter	Automatic temperature compensation; precise ion measurement for wastewater, process control and environmental analysis
Viscometer	Digital and rotational models; $\pm 2\%$ – $\pm 0.5\%$ precision, wide measurement range, temperature-controlled versions available

Disintegration Tester	USP, IP and EP compliant; multi-basket simultaneous testing, programmable timers, automated basket movement
Ultrasonic Cleaner Digital	Dual power modes, high-performance heating, large chamber; labs, healthcare, jewellery and industrial cleaning applications

Histology, Pathology, Clinical & Specialist equipment

Cryostat	Adjustable ULT tissue sectioning; digital displays, safety interlocks, anti-frost systems; pathology, histology and clinical research applications
Ice Maker	High-capacity flake ice production; fast-freezing technology, corrosion-resistant structure; laboratory, clinical, food and industrial applications
Laboratory Oven	Convection and forced-air ovens for drying, curing and general heating; stainless steel interior, programmable temperature, energy efficient insulation
Medical Refrigerator	ADML-510/511: 0–10°C precision range; tempered glass door, automatic frost control, temperature stability for vaccines, medications and blood samples

Quality Assurance & Compliance Framework

Compliance Built into the Manufacturing Process

Quality management is integrated throughout the manufacturing process, from material qualification to final performance verification. Manufacturing operations are conducted within a framework aligned with ISO 9001:2015, ISO 13485:2016, ISO 17025:2017, CE, and GMP requirements, supporting consistent quality and regulatory compliance. Selected equipment is also available with UL certification for markets requiring electrical safety compliance.

QA Process — Key Stages

 Raw material and component inspection against approved specifications	 In-process quality verification at critical manufacturing stages
 Calibration verification using internationally traceable reference standards	 Compliance documentation, including Certificates of Conformity and calibration records
 Functional performance testing prior to release	 IQ/OQ/PQ documentation packages available upon request

R&D & Manufacturing Capabilities

The AD prefix identifies equipment designed, engineered, manufactured, tested, and validated within Advalab manufacturing facilities. Product development, production, quality control, and performance verification are managed under an integrated quality management framework, ensuring consistency throughout the manufacturing lifecycle.

Research & Development	Manufacturing Standards
• Equipment concept design and system engineering • Electronic, firmware, and embedded control system development • Sensor integration and signal conditioning • Prototype development and laboratory performance evaluation • Ongoing product development aligned with advances in laboratory technologies	• Industrial-grade materials for demanding laboratory environments • CNC machining and fabrication of mechanical assemblies • Controlled manufacturing processes with contamination control measures • Cleanroom-compatible assembly for selected clinical and life science equipment • Flexible production capacity for research, industrial, and institutional requirements • Component and production traceability throughout manufacturing • Final functional verification with traceable calibration documentation

Industries & Sectors Served

The product portfolio supports research, clinical, pharmaceutical, industrial, environmental, and educational laboratories where regulatory compliance, controlled operating conditions, and consistent performance are essential. The broad equipment range enables organizations to source multiple laboratory technologies from a single manufacturing partner.

Research & Academic Laboratories Centrifuges, spectrophotometers, incubators, water baths, laboratory ovens	Clinical & Diagnostic Laboratories Laboratory refrigerators, laboratory freezers, biosafety cabinets, cryostats, autoclaves	Pharmaceutical Manufacturing Disintegration testers, stability chambers, GMP-oriented laboratory equipment
Industrial Quality Control Test chambers, viscometers, ultrasonic cleaners, analytical laboratory equipment	Environmental Testing Conductivity meters, refractometers, filtration equipment, incubators	Food Safety & Beverage Ice makers, water baths, refractometers, viscometers, test chambers
Life Science & Biotechnology CO ₂ incubators, ultra-low temperature freezers, centrifuges, laminar flow cabinets	Pathology & Histology Cryostats, medical refrigerators, biosafety cabinets, autoclaves	Academic & Forensic Laboratories Fume hoods, spectrophotometers, laboratory balances, ultrasonic cleaners

Global Reach & Customer Support

Headquartered in Cheyenne, Wyoming, Advalab serves research, clinical, pharmaceutical, and industrial laboratories through an international distribution network. Equipment is developed to support the operational and regulatory requirements of research, quality control, healthcare, and manufacturing environments.

International logistics and distribution processes ensure equipment is supplied with the required certification and technical documentation for global markets. Technical consultation, application support, and after-sales service are available throughout the equipment lifecycle to assist with installation, operation, and ongoing performance.

Service Commitments

- Technical consultation for equipment selection and application requirements
- Documentation support for GMP-regulated environments
- International shipping with certification and export documentation
- Technical support via email, phone, and WhatsApp
- Spare parts, consumables, maintenance, and servicing throughout the equipment lifecycle
- IQ/OQ/PQ documentation available upon request
- Online product catalogue, technical specifications, and quotation request facility

The Advalab Advantage

Integrated Engineering & Manufacturing

Equipment is designed, engineered, manufactured, tested, and calibrated within an integrated manufacturing framework, providing complete product traceability from development through final inspection.

Regulatory & Quality Framework

Manufacturing operations are aligned with ISO 9001:2015, ISO 13485:2016, ISO 17025:2017, CE, and GMP requirements, supporting deployment across research, clinical, pharmaceutical, and industrial laboratories.

Laboratory-Oriented Design

Equipment incorporates intuitive user interfaces, programmable operating parameters, data logging, and connectivity features to support laboratory workflows and validation requirements.

Manufacturing Traceability

Component sourcing, production records, calibration, and quality verification are documented throughout the manufacturing process, supporting equipment lifecycle documentation.

Technical Support

Application guidance, technical assistance, regulatory documentation, and IQ/OQ/PQ documentation are available to support installation, qualification, and ongoing operation.

Company Factfile

Company Name	Advalab Scientific LLC
Headquarters	1712 Pioneer Ave, Cheyenne, WY 82001, USA
Operations	USA — serving research universities, clinical labs, industrial QC
Website	www.advalab.com
Email	info@advalab.com
Business Type	Manufacturer, Exporter & Global Scientific Equipment Supplier
Certifications	ISO 9001:2015 ISO 13485:2016 ISO 17025:2017 CE GMP
Key Products	Refrigerators, Freezers, Water Baths, Spectrophotometers, Centrifuges, Ice Makers, Test Chambers, Ultrasonic Cleaners, Biosafety Cabinets, Fume Hoods, Incubators, Ovens, Chillers, Viscometers, Refractometers, Cryostats
Supply Model	Direct Export Custom Configuration Institutional Procurement
Quote	Get Quote at www.advalab.com or via WhatsApp



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