

Cellax-Ultra™ Laboratory & Biomedical Freezers



*Cooling Efficient with Precision &
Rapid Cooling Environmentally Sustainable and Energy-Efficient*

HIMEDIA®

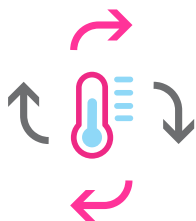
For Life is Precious





CellBio introduces its line of advanced low-temperature cabinets, equipped with smart microprocessor control and available in Vertical models, tailored for the demanding standards of medical, biochemical, and research laboratories in the biological and biomedical sectors.

Cellax-Ultra™, eco-friendly, CFC-free units, operating at **-86°C**, **-40°C**, and **-25°C**, are vital for safeguarding the viability and efficacy of vaccines, medications, reagents, and other temperature-sensitive materials against detrimental temperature variations that can shorten shelf life, degrade enzymes, and reduce vaccine effectiveness.



Temperature
Regulation



Energy
Efficiency



Security &
Durability



Digital Displays &
Alarm Systems

Our Cellax-Ultra™ Supreme Freezer Series Features

Manufactured to meet the most significant criteria of protection and sustainability for ultra-low storage.

Ensure Sample Safety with Advanced Features

- Uniform safety with low peak variation throughout
- V-Drive technology adjusts compressor speeds for energy savings and sample safety
- Permanent temperature and event records
- No maintenance or costly engine repairs
- Worldwide support from our Service Team
- Optional lighting for quick status updates
- Efficient frost control with adjustable heater

Eco-Friendly and Cost-Efficient Design

- Save up to 70% in energy with a new Cellax-Ultra™
- Daily energy consumption under 9 kWh, size-dependent
- Reduces environmental heat output and HVAC expenses
- Complies with SNAP, utilizing natural hydrocarbon refrigerants
- Features SNAP-compliant, eco-friendly, water-blown foam insulation

Lab-Friendly Design and Space Efficiency

- User-friendly touch screen for easy performance checks
- Customizable sizes to fit lab space and storage demands
- Quiet operation at 45.5 dBA, ideal for lab environments
- Advanced security features included

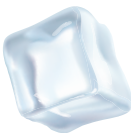


Meeting Customer Needs in Lab...

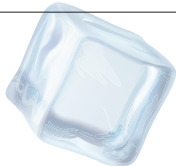
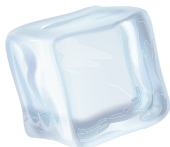
The use of biological freezers in laboratories is pivotal for several scientific and medical applications. These freezers are designed to maintain temperatures much lower than conventional freezers, typically ranging from -25°C to -80°C or even lower in the case of ultra-low temperature (ULT) freezers. A customer's satisfaction with such a freezer might stem from several key factors based on its application and the underlying science that makes these devices so crucial in laboratory settings.



Customer Satisfaction Reasons



Key Benefits of Biological Freezers	Details
1. Preservation of Biological Samples	Ensures extended preservation of DNA, RNA, blood, plasma, vaccines, and cell preparations without degradation. Critical for research, medical diagnoses, and treatment planning.
2. Stability of Chemicals and Pharmaceuticals	Precise temperature control prevents degradation of chemicals and pharmaceuticals, maintaining stability and efficacy. Crucial for research consistency and patient safety.
3. Protection Against Contamination	High-quality design with airtight seals and HEPA filters minimizes contamination risk. Essential for maintaining experiment purity and reliable results.
4. Energy Efficiency and Sustainability	Modern freezers are energy-efficient, reducing operational costs and environmental impact. Customers appreciate the technology's immediate benefits and long-term sustainability.
5. Advanced Monitoring and Alarms	Digital systems and alarms ensure precise temperature maintenance. Early detection of malfunctions provides peace of mind and prevents loss of valuable biological materials.



Choose the Right Temperature...

Biological Freezers to Safeguard Structural and Functional Integrity

-86°C FREEZER : AI0034

For long-term storage of biological samples, including DNA, RNA, proteins, and cell cultures.

Preservation



Sensitivity



-40 FREEZER : AI0035

For storing less sensitive materials, such as enzymes, reagents, or less delicate samples that do not require the ultra-low temperatures of -80°C.

Preservation



Sensitivity



-25 FREEZER: AI0036

For short to medium-term storage of samples, including certain types of chemicals, enzymes, and less temperature-sensitive biological materials.

Preservation



Sensitivity



Know Your Ultra Deep -86°C Freezers (AI0034)



Temperature Control Highlights:

Clear digital display for chamber, power supply, and ambient temperatures, coupled with an advanced microcomputer system for precise settings ranging from -40°C to -86°C

Available in Touch screen formats in capacities of 200L, 400L, 528L, 600L, 1000L



Security System:

- Advanced alarms: temperature, sensor, door, power, battery.
- Reliable operation with delay and stops protection.
- Secure access with keyboard lock and password.



Thermal Insulation System:

- Dual-layer insulated door
- Patented exterior insulation
- Vacuum insulation on all sides
- Boosts efficiency, prevents cooling loss

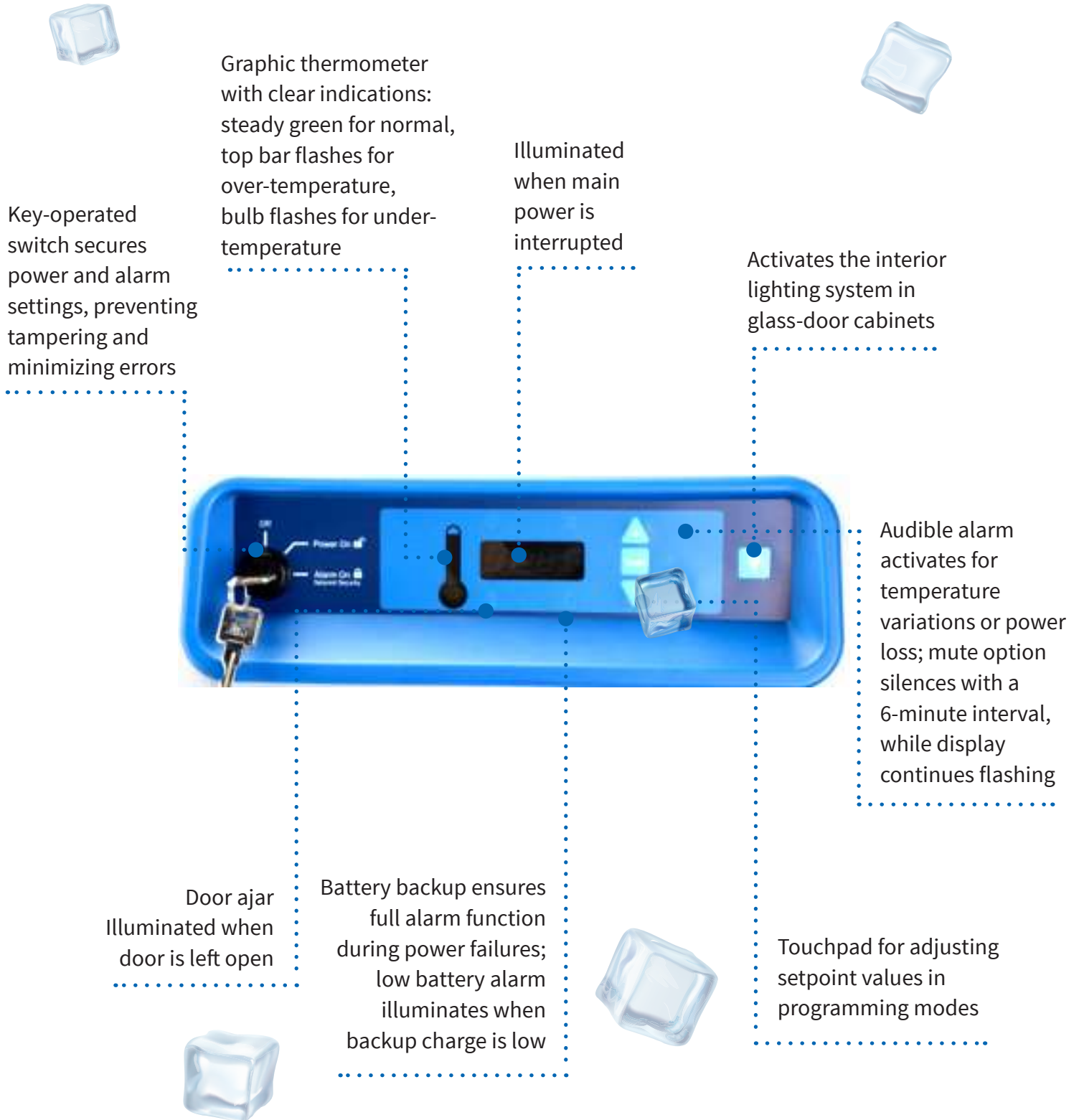
Storage Shelves:

Adjustable 2-3 stainless steel shelves with inner door and double silicon gasket seal

- New-type assisting door handle for easy opening.
- Lockable door handle for secure operation.
- Low-temperature resistance, anti-corrosion, long service life, and easy cleaning.
- Universal wheels for effortless movement and secure fixation



Secure setpoint controls with easy access



Cellax-Ultra™ -86°C Temperature Laboratory & Biomedical Freezer- AI0034

Explore optimal temperature control with our microcomputer system and platinum resistor sensors. Set temperatures from -40°C to -86°C effortlessly on the high-definition control panel. Ensure security with a lockable door, keyboard lock, and password access. **Available in Touch screen formats, capacities range from 200L, 400L, 528L, 600L.**

Optimal temperature control with our microcomputer system and platinum resistor sensors.

Lockable door, keyboard lock, and password access.

Set temperatures from -40°C to -86°C effortlessly on the high-definition control panel.



Applications:

- Material & Construction: Stainless steel for durability.
- Mobility: Equipped with four caster wheels for ease of movement.
- Storage Customization: Adjustable stainless-steel shelves.
- Seal Integrity: Double silicon gasket seal for optimal temperature retention.
- Power Supply: 220V/50Hz 1-phase, adaptable to various configurations.
- Temperature Capability: Suitable for applications requiring -86°C.

Optional Features:

- Chart recorder for temperature monitoring
- CO₂ backup system for additional safety
- Freezer racks/boxes for organized storage
- Remote alarm system for immediate alerts
- Touch Screen Model
- GMP Model Fully S.S
- UPS is available at Extra Cost
- Warranty- 2 Years.

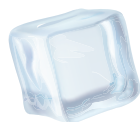


AVAILABLE IN
TOUCH SCREEN
VARIANTS FOR
CAPACITIES OF
200L, 400L, 528L,
600L & 1000L

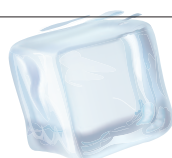
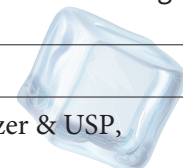
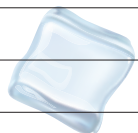
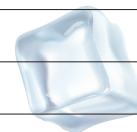


Technical Specifications of Cellax-Ultra™ -86°C:

AI0034



Features	Details
Temperature Range	-40~-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Compressor	1pc Dual Compressor
Cooling Method	Direct Cooling
Defrost Mode	1. Automatic (Software based) 2. Manual
Refrigerant	HC, HFC-free, CFC-free, HCFC free non-flammable
Insulation Thickness(mm)	L:90, R:115 / L/R:155, B:170
External Material	Cold rolled steel sheet
Inner Material	Stainless steel (304 2B)
Shelves	3(Stainless steel) with a capacity of holding 6 racks
Door Lock with Key	Yes
Access Port	1pc. Ø 25 mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minutes / 2 years
Backup Battery	Yes
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure, Low battery
System	Sensor failure, Communication error, Built-in datalogger USB failure, Condenser overheating alarm, Door ajar
Standard	RS485, Remote alarm contact
Options with additional charges	CO2 backup system, Servo stabilizer & USP,
Available Double door format Capacities	200L, 400L, 528L, 600L, 1000L
Certificate	IEC 61010, CE, ISO 9001, UL



Know Your -40°C & -25°C Laboratory & Biomedical Freezer



- Ideal for preserving biological samples, reagents, vaccines, and laboratory specimens at -40°C.
- Suitable for research laboratories, pharmaceutical industries, and medical facilities.
- Ensures integrity and viability of stored materials for scientific applications.
- Enables long-term storage with temperature stability for sensitive samples.
- Designed for environments requiring a moderate freezing point for sample preservation.

Exceptional cooling performance

Rapid cool-down and recovery times. Superior insulation achieved through PUF insulation panels.

Door Operation

Single hand operation with ergonomic handles

Capacities : 200L, 300L, 400L, 600L, 800L, 1000L

Cellax-Ultra™ -40°C AI0035

Assured reliability:

- Self-diagnostic system with multiple alarms
- Eye-level controls, Perfect Fit double-sealing door

Door Insulation

Triple reinforced solid doors with advanced PUF insulation

Storage capacity & flexibility:

- Large sample storage capacity per footprint
- Reinforced stainless steel

Shelves

Height-adjustable stainless steel with compartment

Castor Wheels

4 heavy-duty lockable castor wheels

Cellax-Ultra™ -25°C AI0036

OPTIONAL - Cryo box :

Cryo racks with cryo boxes

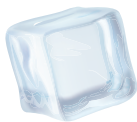
Capacities : 200L, 300L, 400L, 600L, 700 L



Key Features of Cellax-Ultra™ -40°C (AI0035) & -25°C (AI0036) Freezer



Construction & Design



- Vertical upright design for space optimization
- Exterior made of galvanized steel with zinc and antibacterial coating
- Solid cabinet casing with polished stainless steel to prevent corrosion
- Interior made of polished stainless steel (grade 304 2B) for easy cleaning and oxidation prevention
- Single-hand operation with an ergonomic door handle and integrated key lock
- Individual heated door sealing for temperature retention



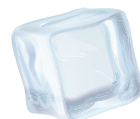
Control & Monitoring



- Clear and legible Blue LED display with advanced interface
- Audible and visible alarms for temperature, power failure, system failure, low battery, etc.
- Single RTD (PT1000 platinum RTD) temperature sensor for accuracy control



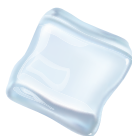
Energy, Efficiency & Technology



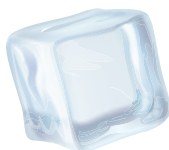
- Eco-friendly insulation for minimal thermal losses (CFC-HCFC-free)
- Efficient hermetically sealed AC compressor system
- Rapid direct in-cooling copper coil with dual condenser fans
- Compressor start delay and stopping interval protection
- Fast temperature recovery with fully microprocessor-controlled system
- Programmable temperature range: -10°C to 30°C with 1°C precision



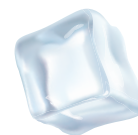
Additional Features



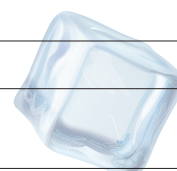
- Heavy-duty lockable castor wheels for easy portability
- Electrical supply: 220-240 Volts AC (50Hz)
- 5.0 KVA V-Guard Servo Stabilizer with digital display for power stability
- Nearly system-silent noise level (at -80°C) of 58.5 dB.



Technical Specifications of Cellax-Ultra™ -40°C



Feature	Specification
Construction	Vertical upright
Exterior Material	Galvanized steel with antibacterial coating
Interior Material	Polished stainless steel (grade 304 2B)
Heating Technology	Heater recycler technology
Sample Port	Separate with automated decompression vent
Alarms	Audible and visible alarms for temperature, power and system
Temperature Sensor	Single RTD (PT1000 platinum RTD)
Refrigerants	HFC-free, CFC-free, HCFC-free non-flammable refrigerants
Stabilizer	5.0 KVA V-Guard Servo Stabilizer with digital display
Noise Level (at -80 °C)	58.5 dB (System silence)
Air Circulation System	Motor and blower for uniform temperature under loaded condition
Outer Material (GMP Model)	Stainless steel 304 with key lockable outer door
Inner Features (Both Models)	Double wall, 80mm PUF insulation, Inner glass viewing door, Stainless steel 304 Rack & Trays
Outer Material (Standard Model)	Outer GI with powder coating and key lockable door
Trays Material	Stainless steel 304
Insulation Thickness	80mm, CFC-free, PUF Insulation
Lighting	Fluorescent light for interior illumination
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R134a/R404 refrigerant, bypass system
Control System	PID Temperature controller with 4" Touch Screen display
Sensor	PT 100 Sensor
Auto Start	System starts automatically with default set parameters on power resumption
HMI / Display	4" Touch Screen Display
Validation Port	40 mm validation Port
Power Supply	230V AC single phase 50Hz
Additional Features	MCB, Heavy-duty latch with lock & key, PU Wheels for easy movement
Temperature Range Options	-20°C to -40°C
Temperature Accuracy	± 3°C
Temperature Uniformity	± 5°C
Available Double door format Capacities	200L, 300L, 400L, 600L, 800L, 1000L
Certificate	CE, ISO



Technical Specifications of Cellax-Ultra™ -25°C

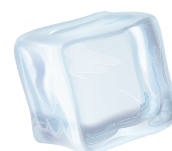
Feature	Specification
Design	Vertical Upright
Exterior Material	Galvanized steel with zinc and antibacterial coating
Cabinet Casing	Solid, with polished stainless steel to prevent corrosion
Interior Material	Polished stainless-steel grade 304 2B
Door Handle	Ergonomic with integrated key lock for single-hand operation
Inner Doors	4 independent, heated sealing doors to prevent temperature loss
Technology	Heater recycler technology for efficient heat recycling (frost-free system)
Venting	Heated pressure equalization port and separate sample port with automated decompression
Shelves	6 nos height adjustable stainless-steel shelves with compartment doors
Security	Keyed locks and padlock-able ergonomic door handle
Insulation	Triple reinforced doors with advanced PUF; High-grade vacuumed PUF insulation
Environmental Friendliness	CFC-HCFC free insulation; HFC-free, CFC-FREE, HCFC-FREE refrigerants; Green Natural HCGas based system
Filter	Easy to remove washable filter for dust protection
Compressor	Hermetically sealed AC rotating, 1HP, designed for single phase AC supply
Cooling System	Rapid direct-in cooling copper coils with ISI marked air-cooled hermetic compressors
Temperature Control	Microprocessor controlled, -10°C to 30°C with 1°C increments; Adjustable Range: -10°C to 30°C
Display	Blue LED display, eye-level positioning for easy viewing
Alarms	Audible and visible for temperature, power failure, system failure, battery low
Temperature Sensor	Single RTD (PT1000 platinum RTD) for monitoring and accuracy
Mobility	4 nos heavy duty lockable castor wheels
Power Requirement	220-240 Volts AC (50Hz)
Stabilizer (Optional)	5.0 KVA V-Guard Servo Stabilizer & UPS with digital display FOC (extra charges)
Noise Level	58.5 dB at -80°C; Nearly silent operation noise level less than 65 dB (A)
Backup (Optional)	LN2/CO2 Backup
Nominal Voltage	220-230 Volts, 50-60 Hz Single Phase
Certificate	CE, ISO
Temperature Accuracy	± 3°C
Temperature Uniformity	± 5°C
Available Double door format Capacities	200L, 300L, 400L, 600L, 700L
Certificate	CE, ISO

Cellax-Ultra™ Laboratory & Biomedical Freezer

Product Ranges



Product Name	Code
Cellax-Ultra™ -86°C Laboratory & Biomedical Freezer	
Cellax-Ultra™ -86°C Ultra Low Temperature Laboratory Freezer, 200Litres, Upright	AI0034-200L-1NO
Cellax-Ultra™ -86°C Ultra Low Temperature Laboratory Freezer, 400Litres, Upright	AI0034-400L-1NO
Cellax-Ultra™ -86°C Ultra Low Temperature Laboratory Freezer, 528Litres, Upright	AI0034-528L-1NO
Cellax-Ultra™ -86°C Ultra Low Temperature Laboratory Freezer, 600Litres, Upright	AI0034-600L-1NO
Cellax-Ultra™ -86°C Ultra Low Temperature Laboratory Freezer, 1000Litres, Upright	AI0034-1000L-1NO
Cellax-Ultra™ -25°C and -40 °C Laboratory & Biomedical Freezer	
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 200Litres, Upright	AI0035-200L-1NO
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 300Litres, Upright	AI0035-300L-1NO
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 400Litres, Upright	AI0035-400L-1NO
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 600Litres, Upright	AI0035-600L-1NO
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 800Litres, Upright	AI0035-800L-1NO
Cellax-Ultra™ -40°C Low Temperature Laboratory & Biomedical Freezer, 1000Litres, Upright	AI0035-1000L1NO
Cellax-Ultra™ -25°C Low Temperature Laboratory & Biomedical Freezer, 200Litres, Upright	AI0036-200L-1NO
Cellax-Ultra™ -25°C Low Temperature Laboratory & Biomedical Freezer, 300Litres, Upright	AI0036-300L-1NO
Cellax-Ultra™ -25°C Low Temperature Laboratory & Biomedical Freezer, 400Litres, Upright	AI0036-400L-1NO
Cellax-Ultra™ -25°C Low Temperature Laboratory & Biomedical Freezer, 600Litres, Upright	AI0036-600L-1NO
Cellax-Ultra™ -25°C Low Temperature Laboratory & Biomedical Freezer, 700Litres, Upright	AI0036-700L-1NO





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Corporate Headquarters



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with network reach
spanning over 150 countries
across the world.

Asia

Africa

Australia

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OVERSEAS OFFICE

- Europe -

HiMedia Laboratories GmbH,
Marie-Curie-Str. 3, 64683,
Einhausen, Germany.
Tel : +49 6251 989 24 26
Fax : +49 6251 989 24 27
Email : infoeu@himedialabs.com

OVERSEAS OFFICE

- North America -

HiMedia Laboratories LLC,
507 School House Rd,
Kennet Square 19348,
PA, USA.
Tel : +1-484-734-4401
Fax : +1-484-734-4402
Email : infous@himedialabs.com

- CORPORATE OFFICE -

Plot No. C40, Road No. 21Y, MIDC,
Wagle Industrial Estate,
Thane (West) - 400604,
Maharashtra, India.
Tel : +91-22-6147 1919 /
6116 9797 / 6903 4800
Fax : +91-22-6147 1920
Email : info@himedialabs.com

HiMedia Laboratories Pvt. Ltd.

www.himedialabs.com

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