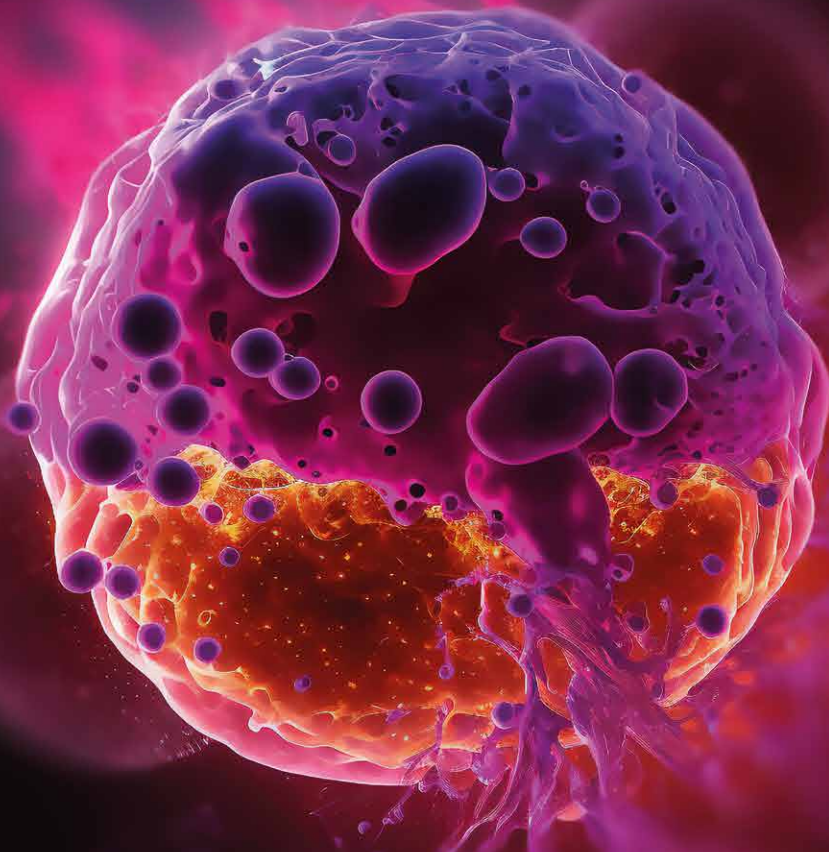
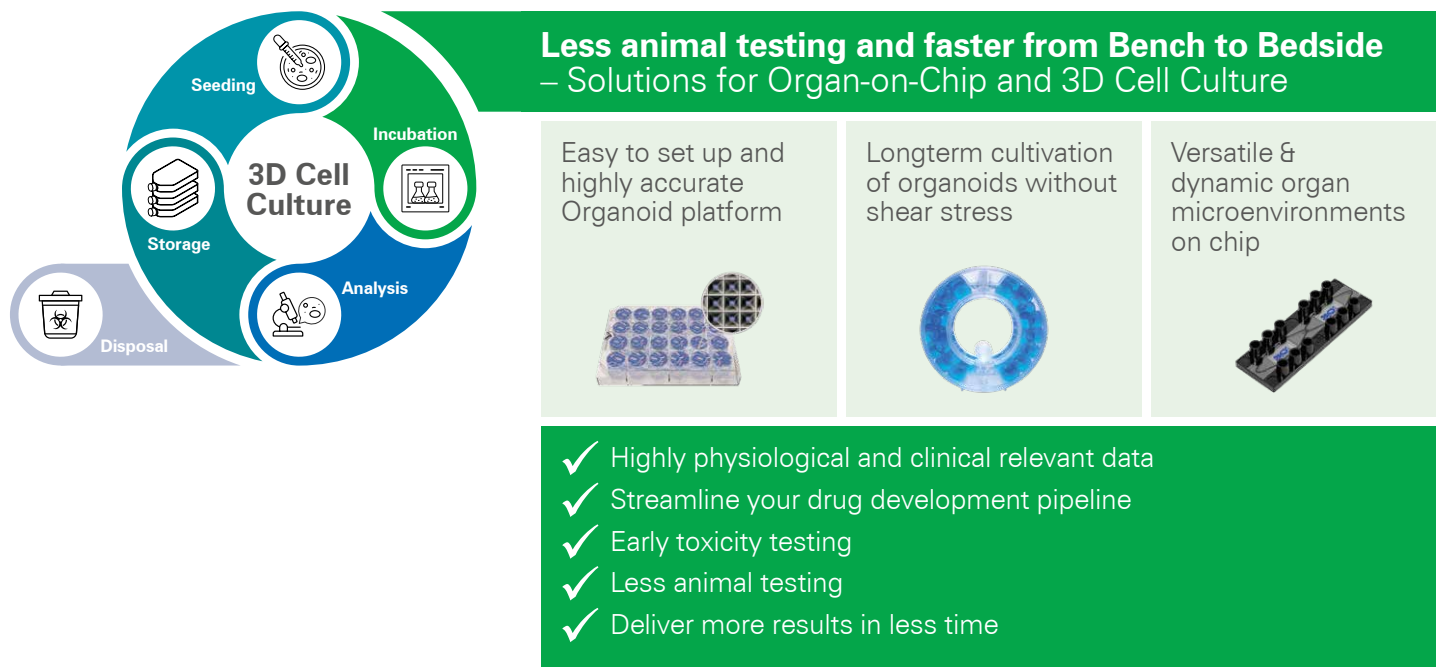


3D Cell Culture



Better models – **better decisions.**



After decades of biological research across the globe, there is now sufficient evidence that traditional 2D cell culture does not accurately mimic how cells behave in vivo. As a result, scientists increasingly rely on more physiologically relevant models.

3D cell culture systems enable researchers to better replicate the natural cellular environment, allowing the formation of spheroids, organoids, and micro-tissues that more closely resemble real biological structures.

Building on these advances, **Organ-on-a-Chip technologies represent the next generation of in vitro models**, combining 3D cell culture with microfluidics to recreate tissue- and organ-level functions in a highly controlled environment. These platforms enable dynamic studies of cell–cell interactions, mechanical cues, and physiological responses, bringing researchers even closer to mimicking human biology.

At Axonlab, we understand these challenges and have partnered with innovative companies that provide cutting-edge solutions. This flyer offers a glimpse into exciting products that support the generation and maintenance of spheroids, organoids, micro-tissues—and now also advanced Organ-on-a-Chip systems.

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Chapter 1

Seeding



Centrifuge

Frontier™ 5000 Series Multi Pro



Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application

- Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.
- The intuitive design of the centrifuges and accessories enables easy access to parameter settings and quick rotation between applications. Features include automatic rotor recognition and backlit LCD.
- The performance of these centrifuges is propelled by German engineering and high quality components for reliable use. Constructed from chemical-resistant stainless steel to ensure durability in lab use.



Centrifuge

Frontier™ 5000 Series Multi

Reliable and Compact Multi-Function Centrifuges Ideal for General Low Throughput Lab Applications

- Designed for ease of operation, Frontier Multi Centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.
- Frontier Multi Centrifuges can accommodate standard 50 ml and 15 ml tubes, including common blood tubes and urine tubes. When used with accessories, rotors can be adapted for sizes as small as 1.5 ml.
- Enclosing all its functionalities within a small footprint, Frontier Multi Centrifuges save valuable space on the lab bench.



12101048	Centrifuge Mini, FC5306
12101045	Centrifuge Multi, FC5706

Safety Cabinet



Safemate ECO+ Series

Advanced Safety. Sustainable Performance.

The Safemate ECO+ Microbiological Safety Cabinets by BioAir S.p.A. combine state-of-the-art European engineering with certified biological safety and an eco-friendly design. Certified to EN 12469 and TÜV Nord approved, these Class II Type A2 cabinets deliver maximum protection for operator, product, and environment—at a highly competitive price point.

Equipped with high-efficiency DC motor blowers, the ECO+ series ensures low energy consumption, reduced noise levels, and exceptional airflow stability. The microprocessor-controlled system with a large high-resolution digital display provides continuous monitoring of airflow, alarms, and HEPA filter life, ensuring reliable performance at all times.

Designed for daily laboratory comfort, the cabinets feature an electrically operated, air- and aerosol-tight sliding sash, ergonomic sloped walls, excellent illumination, and easy front access for maintenance. Available in four sizes (0.9, 1.2, 1.5, and 1.8 m), the Safemate ECO+ adapts perfectly to any laboratory layout.

Safemate ECO+ – certified safety, intelligent control, and sustainable efficiency, proudly engineered in Italy.



- The interior design, aerodynamics and airflow monitoring, and the integrated safety devices ensure the highest performance in compliance with the most stringent safety levels
- Optimal flow during use thanks to the V-shaped front anti-obstruction grill without the need for armrests
- Front gasket and closing mechanism of the sealing glass prevent air leakage during work and facilitate cleaning when the machine is closed

LDQ320N	SafeMate ECO+ 0.9 without work surface, includes UV installed on backwall
LDQ420N	SafeMate ECO+ 1.2 without work surface, includes UV installed on backwall
LDQ520N	SafeMate ECO+ 1.5 without work surface, includes UV installed on backwall
LDQ690N	SafeMate ECO+ 1.2 without work surface, includes UV installed on backwall
LDQ420N	SafeMate ECO+ 1.8 without work surface, includes UV installed on backwall

Safety Cabinet



SafeMate Q(iet)

The BioAir SafeMate Q Safety Cabinet is a state-of-the-art containment solution designed to provide maximum protection for personnel, products, and the laboratory environment. Engineered for demanding life science and pharmaceutical applications, the SafeMate Q ensures reliable handling of hazardous substances through advanced airflow management and high-efficiency filtration.

Equipped with H14 HEPA filters, the cabinet delivers superior particle retention while maintaining stable laminar airflow for optimal containment and user comfort. Its intelligent control system continuously monitors airflow performance, filter status, and safety parameters, providing clear visual and acoustic alerts to ensure compliance and operational security at all times.

The ergonomic design of the SafeMate Q enhances user productivity, featuring a spacious work area, low noise levels, and energy-efficient operation.

Constructed from high-quality materials and compliant with international safety standards, the BioAir SafeMate Q Safety Cabinet represents a dependable, long-term investment for laboratories seeking uncompromising safety, performance, and ease of use.

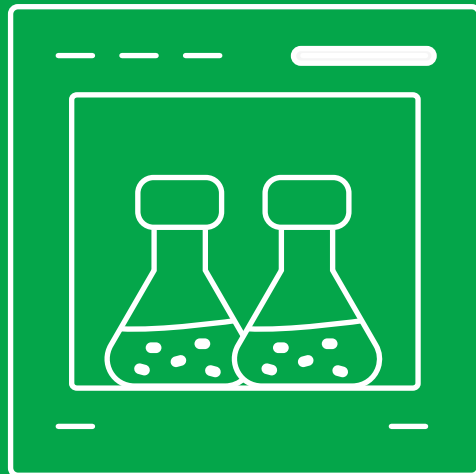


- The new soft plenum compensates blower vibrations and provides a more stable and uniform airflow
- The Eco Mode allows to reduce power consumption, as well as further decreasing the noise level, whilst keeping the working area sterile
- The careful design of the airflows allows for BioAir’s lowest ever level of noise, providing you with the most comfortable working environment
- H₂O₂ decontamination is now fully integrated

LDP420N	SafeMate Q 1.2 without work surface, includes UV installed on backwall
LDP520N	SafeMate Q 1.5 without work surface, includes UV installed on backwall

Chapter 2

Incubation



Cell Culture Plastics

ABDOS LIFE SCIENCES



High-Quality Cell Culture Plastics – Precision You Can Trust

Our premium range of cell culture plastics is designed to support reliable, reproducible results in every laboratory workflow. Manufactured from high-grade materials and produced under strict quality standards, these products ensure optimal cell growth, safety, and ease of use in research, clinical, and industrial laboratories.

The portfolio includes cell culture flasks and plates made of polystyrene (PS), available in both treated and non-treated versions to meet diverse cell attachment requirements, as well as cell culture dishes for routine and advanced applications.

Cell scrapers (PP/HIPS) provide efficient and gentle cell harvesting, while roller bottles (PS) enable large-scale cell expansion. For sample handling and processing, we offer Bio-Reaction tubes (PP), media bottles (PET & PETG), and Erlenmeyer flasks (PC & PETG), combining excellent chemical resistance, clarity, and durability. The portfolio is completed by the BIOFILL Bottle Top Filtration System, delivering fast, reliable, and contamination-free media and buffer filtration.

From daily cell culture work to large-scale applications, our cell culture plastics stand for high quality, consistency, and performance - supporting your research with confidence.

**Cell Culture Flasks,
PS, Treated and
Non-Treated**



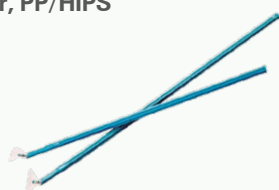
**Cell Culture Plates, PS,
Treated and Non-Treated**



Cell Culture Dish, PS



Cell Scraper, PP/HIPS



Roller Bottles, PS



Bio-Reaction Tubes, PP



**Media Bottles,
PET & PETG System**



**Erlenmeyer Flasks,
PC & PETG**



BIOFILL Bottle Top Filtration



Elegant pipettes



Pipette tips



Serological Pipettes



Cell Culture Consumables & Accessories

Vacuum Filtration Units



The ABDOS Biofill Filtration System combines precision, speed, and sterility in one disposable unit. Its asymmetric PES membrane offers low resistance and high flow with minimal protein binding. The complete system includes a graduated funnel, receiver bottle, and neck adaptor, ensuring compatibility with most standard lab setups. Every unit is pre-sterilized, DNase/RNase-free, and certified non-pyrogenic, making it ideal for sensitive biological workflows.

- Designed for sterile filtration of tissue culture media, buffers, and biological solutions.
- PES membranes provide fast flow and low extractables for reliable sample integrity.
- Manufactured and validated under ISO 11137 quality standards.
- Constructed from clear polystyrene funnels and polyethylene neck adaptors for durability and visibility.



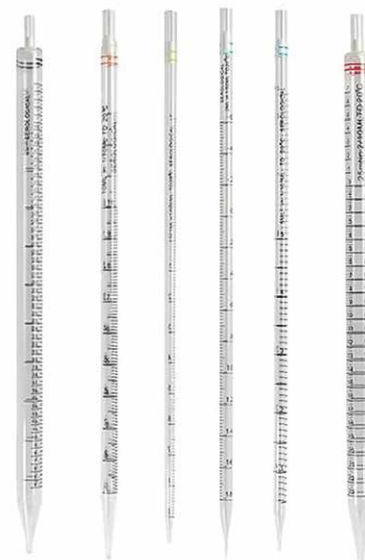
P21090	BIOFILL Bottle Top Filtration System, 250 ml, 0.2 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21091	BIOFILL Bottle Top Filtration System, 500 ml, 0.2 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21092	BIOFILL Bottle Top Filtration System, 1'000 ml, 0.2 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21093	BIOFILL Bottle Top Filtration System, 250 ml, 0.45 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21093	BIOFILL Bottle Top Filtration System, 250 ml, 0.45 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21094	BIOFILL Bottle Top Filtration System, 500 ml, 0.45 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21095	BIOFILL Bottle Top Filtration System, 1'000 ml, 0.45 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21096	BIOFILL Bottle Top Filtration System, 250 ml, 0.1 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21097	BIOFILL Bottle Top Filtration System, 500 ml, 0.1 µm High Flow PES Bottle Top Filter Full Assembly, Sterile
P21098	BIOFILL Bottle Top Filtration System, 1'000 ml, 0.1 µm High Flow PES Bottle Top Filter Full Assembly, Sterile

Cell Culture Consumables & Accessories



Serological Pipettes, Sterile, PS – High Accuracy for Cell & Tissue Culture

- **Designed for Precision and Safety** – Each ABDOS Serological Pipette is engineered for controlled fluid transfer with exceptional accuracy and repeatability. The PE filter plug acts as a barrier to prevent aerosol contamination and liquid overflow.
- **Superior Material and Clarity** – Constructed from transparent medical-grade PS, these pipettes offer distortion-free viewing and compatibility with a variety of laboratory reagents and media.
- **Graduations for Efficiency** – Bold, black graduations enhance visibility and prevent reading errors, while reverse and negative markings ensure full control over dispensed or remaining volume.
- **Validated Sterility and Purity** – Every batch undergoes gamma sterilization and stringent testing for endotoxins (≤ 0.005 EU/ml), cytotoxicity (ISO 10993-5), and non-haemolytic properties, making them ideal for sensitive biological work.
- **Reliable and Compatible Design** – The universal tip design ensures smooth fitting with pipette controllers, providing comfort, control, and accuracy during extended pipetting sessions.



P10601	Serological Pipettes, sterile, PS, 1 ml, ind. wrapped, DNase/RNase free, 500 units
P10602	Serological Pipettes, sterile, PS, 2 ml, ind. wrapped, DNase/RNase free, 400 units
P10603	Serological Pipettes, sterile, PS, 5 ml, ind. wrapped, DNase/RNase free, 200 units
P10604	Serological Pipettes, sterile, PS, 10 ml, ind. wrapped, DNase/RNase free, 200 units
P10605	Serological Pipettes, sterile, PS, 25 ml, ind. wrapped, DNase/RNase free, 200 units
P10606	Serological Pipettes, sterile, PS, 50 ml, ind. wrapped, DNase/RNase free, 100 units
P10607	Serological Pipettes, non-sterile, PS, 1 ml, isleeve of 100, DNase/RNase free, 500 units
P10608	Serological Pipettes, non-sterile, PS, 2 ml, isleeve of 100, DNase/RNase free, 400 units
P10609	Serological Pipettes, non-sterile, PS, 5 ml, isleeve of 25, DNase/RNase free, 200 units
P10610	Serological Pipettes, non-sterile, PS, 10 ml, isleeve of 25, DNase/RNase free, 200 units
P10611	Serological Pipettes, non-sterile, PS, 25 ml, isleeve of 25, DNase/RNase free, 200 units
P10612	Serological Pipettes, non-sterile, PS, 50 ml, isleeve of 25, DNase/RNase free, 100 units

Cell Culture Consumables & Accessories



Centrifuge Tubes Conical Bottom, PP/HDPE – Secure Closure. Clear Results.

- **Material Integrity** – Manufactured from USP Class VI virgin PP with HDPE caps for strength, purity, and chemical compatibility.
- **Optimized Tube Geometry** – The hydrodynamic conical base supports efficient pelleting and complete sample recovery.
- **Leak-Proof Closure** – Plug-seal screw caps ensure a secure, vacuum-tight fit without cross-threading.
- **Precision Markings** – Permanent silk-screen graduations and a large frosted label zone enhance traceability.
- **Thermal & Optical Stability** – Transparent walls with minimal haze; safe from –80 °C to +121 °C and autoclavable.
- **Certified Cleanroom Manufacturing** – ISO 11137-validated sterilization; free from DNase/RNase, endotoxins, pyrogens, and heavy metals.



P10401	Centrifuge Tube, Conical, PP, 15 mL, DNase/RNase free - 20 x 25 units
P10402	Centrifuge Tube, Conical, PP, 15 mL, Sterile, DNase/RNase free - 20 x 25 units
P10404	Centrifuge Tube, Conical, PP, 50 mL, Sterile, DNase/RNase free - 20 x 25 units
P10424	Centrifuge Tube, Conical, PP, 50 mL, Self-Standing, Sterile, DNase/RNase free - 20 x 25 units
P10431	Centrifuge Tube, Conical, PP, 50 mL, Bulk, DNase/RNase free - 500 units

Cell Culture Consumables & Accessories



Pipetboy-Profiller™ 447

The robust everyday helper in the lab

- Powerful pump – fills 25 ml in 3 seconds
- Simple, fast operation
- Choice of dispensing modes either blow-out or gravity mode
- A switch enables selection of fast or slow aspiration and dispensing speeds
- Comfortable finger triggers
- Large display always visible
- Real time battery charge indicator
- NiMH battery rechargeable during use
- Reliable construction for shock and chemical resistance
- Interchangeable protection membrane filter



Cell Culture Consumables & Accessories

Cell Culture Media

Nutrients for your cells

Dulbecco’s Modified Eagle Medium (DMEM)

- Widely used basal medium for supporting the growth of many different mammalian cells
- To culture primary fibroblasts, neurons, glial cells, HUVECs, and smooth muscle cells, as well as cell lines such as HeLa, 293, Cos-7, and PC-12 and more

Roswell Park Memorial Institute (RPMI) 1640 Medium

- Suitable for a variety of mammalian cells
- To culture human leukemic cells, HeLa, Jurkat, MCF-7, PC12, PBMC, astrocytes, and carcinomas and more

Minimum Essential Medium (MEM)

- Can be used with a variety of suspension and adherent mammalian cells, including HeLa, BHK-21, 293, HEP-2, HT-1080, MCF-7, fibroblasts, and primary rat astrocytes

Dulbecco’s Modified Eagle Medium/Nutrient Mixture F-12 (DMEM/F-12)

- Basal medium for supporting the growth of many different mammalian cells
- Suitable for MDCK, glial cells, fibroblasts, human endothelial cells, and rat fibroblasts



12053418	DMEM, high Glucose (4.5 g/l D(+)-Glucose), w/o Sod. pyruvate, w/ L-Glutamine, 500 ml
12053415	DMEM, high Glucose (4.5 g/l D(+)-Glucose),w/o Sodium Pyruvate, w/o L-Glutamine, 500 ml
12053416	DMEM, with 1 g/L D-Glucose (Low Glucose), 500 ml Bottle Top Filter Full
12053419	RPMI Medium 1640 with L-Glutamine, 500 ml
12053417	RPMI Medium 1640, w/o D(+)-Glucose, w/o L-Glutamine, 500 ml
12053420	MEM, with Earle’s salts, w/o L-Glutamine 500 ml
12053421	DMEM/F-12 (HAM) 1:1 with L-Glutamine, 500 ml

Cell Culture Consumables & Accessories

Gradient Media

Purification of cells and organelles, membrane vesicles, viruses, proteins, nucleic acids and lipoproteins

OptiPrep™ – density of 1.32 g/ml

- Sterile and endotoxin tested
- Based on iodixanol
- No potential for bioaccumulation
- Universal density gradient medium for Cell Isolation, Isolation of subcellular organelles and membranes, Virus purification, Macromolecules and lipoproteins purification
- OptiPrep™ has a better yield, purity and viability (92%, 86%, 54%) compared to Histopaque (58%, 61%, 54%)



LymphoPrep™ – density of 1.077 g/ml

- Sterile and endotoxin tested
- Isolation of mononuclear cells (monocytes and lymphocytes) from peripheral blood, cord blood, and bone marrow
- Lymphoprep™ can be substituted for Ficoll-Paque™ without any need to change your existing protocols and is fully compatible with both SepMate™ and RosetteSep™



NycoPrep™ – density of 1.077 g/ml

- Sterile and endotoxin tested
- Isolation of human mononuclear cells (lymphocytes and monocytes)
- Polymorph™ – density of 1.113 g/ml
- Sterile, Polymorphic and endotoxin tested
- Isolation of human polymorphonuclear leucocytes (granulocytes) from whole blood



Nycodenz® – a density of 1.426 g/ml can be prepared

- Freely soluble in water up to 80% (w/v)
- Isolation of cells, subcellular organelles and membranes, macromolecules and viruses
- Nycodenz® forms true solutions. It is therefore easy to remove the medium from the cells after fractionation
- Nycodenz® is resistant to bacterial degradation
- Nycodenz® solutions can be autoclaved



10004629	OptiPrep™, 250 ml
10004631	Lymphoprep, 4 x 250 ml
10003795	Nycoprep 1.077, 1 x 100 ml
10004634	Polymorphprep, 1 x 250 ml
10003798	Nycodenz, 1 x 500 g

Cell Culture Consumables & Accessories

AppliChem Mycoplasma Test



Reliable and sensitive assay for the rapid detection of mycoplasma contamination in cell culture supernatants. Designed for routine monitoring without the need for specialized equipment.

Key features

- Rapid detection of mycoplasma contamination
- Based on enzymatic activity specific to mycoplasma
- Simple handling with minimal sample preparation
- Fast and easy-to-interpret results
- Suitable for routine screening and quality control



10032220	PCR Mycoplasmen – Testkit II
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Cell Culture Consumables & Accessories

AppliChem Incubator Clean



Ready-to-use solution for routine cleaning and decontamination of CO₂ incubators and laboratory surfaces in cell culture environments. The aldehyde-free formulation ensures effective microbial control while maintaining high material compatibility.

Key features

- Ready to use – no dilution required
- Effective against bacteria, fungi, and yeast
- Aldehyde-free and non-corrosive formulation
- Residue-free drying
- High compatibility with stainless steel, plastics, and seals
- Suitable for routine and preventive cleaning of incubators



10029302	Incubator-Clean™, 500 ml
10029302	Incubator-Clean™, 5l

Cell Culture Consumables & Accessories



Tecniplast CellCare CO₂ Incubators

Tecnilabo CellCare CO₂ Incubators – Precision and Cleanliness You Can Trust

Tecnilabo CellCare CO₂ Incubators are engineered to provide unmatched culture stability and contamination-free conditions for a wide range of cell types, from CHO and SF-9 lines to primary tissue cultures.

With precise environmental control, innovative fanless design, and fully integrated sterilization, CellCare ensures that every experiment can be performed with confidence and reproducibility.

Key features

- Stable cell culture conditions: optimized for CHO, SF-9, and primary tissue cultures
- Exceptional precision: $\pm 0.3\%$ CO₂ and ± 0.1 °C temperature regulation
- Fanless uniform heating: avoids airflow disturbances and minimizes contamination risk
- Automatic dry-heat sterilization: 180 °C, 2-hour cycle – no consumables or filters required
- Single-piece stainless steel chamber: AISI 304 construction for easy cleaning and corrosion resistance
- Flexible sizing: compact or full-size models to fit any laboratory setup
- Two sizes available : 53 L and 188.6 L



CO21610	CELLCARE 50 L CO ₂ Incubator - Right door opening (hinges on the left) 3 solid shelves - 240V 50/60Hz
CO21611	CELLCARE 50 L CO ₂ Incubator - Left door opening (hinges on the right) 3 solid shelves - 240V 50/60Hz
CO21612	CELLCARE 50 L CO ₂ Incubator - Right door opening (hinges on the left) 3 perforated shelves - 240V 50/60Hz
CO21613	CELLCARE 50 L CO ₂ Incubator - Left door opening (hinges on the right) 3 perforated shelves - 240V 50/60Hz
CO21710	CELLCARE 188 L CO ₂ Incubator - Right door opening (hinges on the left) 4 solid shelves - 240V 50/60Hz
CO21711	CELLCARE 188 L CO ₂ Incubator - Left door opening (hinges on the right) 4 solid shelves - 240V 50/60Hz
CO21712	CELLCARE 188 L CO ₂ Incubator - Right door opening (hinges on the left) 4 perforated shelves - 240V 50/60Hz
CO21713	CELLCARE 188 L CO ₂ Incubator - Left door opening (hinges on the right) 4 perforated shelves - 240V 50/60Hz

Cell Culture Consumables & Accessories

CelVivo® Clinostar® 2 – CO₂ Incubator with Integrated Clinostat Technology



The CelVivo® Clinostar® 2 is a compact CO₂ incubator with fully integrated clinostat technology, specifically designed for the generation of three-dimensional cell culture models. By combining precise environmental control with continuous, controlled rotation, Clinostar® 2 reduces gravity-driven sedimentation and enables cells to self-assemble into physiologically relevant 3D structures.

Clinostar® 2 provides stable regulation of temperature, CO₂ concentration, and humidity within a closed system, ensuring reproducible culture conditions throughout the entire experiment. The integrated design removes the need for external rotating devices or additional incubators, minimizing handling steps and contamination risks.

By promoting enhanced cell–cell interactions and tissue-like organization, Clinostar® 2 supports more predictive in vitro models compared to conventional static 2D cultures. Its small footprint, quiet operation, and intuitive handling make it suitable for routine use in research laboratories focusing on advanced cell culture.

Key features

- CO₂ incubator with integrated clinostat technology
- Simulated microgravity via continuous controlled rotation
- Reduction of sedimentation and gravity-induced artifacts
- Precise control of temperature, CO₂, and humidity
- Supports formation of physiologically relevant 3D cell models
- Compact design and user-friendly operation

Typical applications

- Cancer and tumor biology
- Tissue engineering and regenerative medicine
- Stem cell research
- Drug screening and toxicity testing



Cell Culture Consumables & Accessories

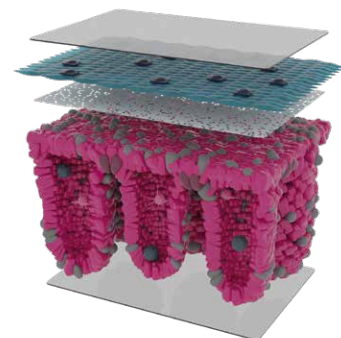


Dynamic42 DynamicOrgan® System

– Open Organ on Chip Platform for Human Relevant In Vitro Models

The **Dynamic42 DynamicOrgan® System** is an open organ on chip platform designed to recreate human organ biology and disease processes on microfluidic biochips. By combining physiologically relevant flow conditions with multicellular, immune-competent tissue models, the system enables advanced in vitro studies that more closely reflect human biology than traditional 2D cultures or animal models.

Engineered for accessibility and ease of integration, DynamicOrgan® allows scientists to build and customize organ on chip models using standardized biochips and readily available laboratory equipment. The platform supports a range of organ specific applications – from liver and gut to lung, vasculature, cancer, and spheroid models – while providing human relevant data for preclinical drug development and biomedical research.

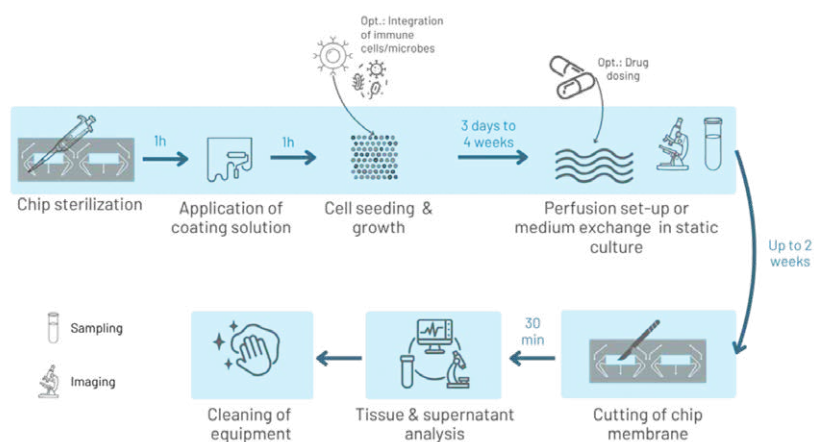


Key features

- Open and flexible system: integrates with existing lab equipment with no proprietary hardware required.
- Physiological perfusion: mimics in vivo like fluid flow and mechanical stimulation via peristaltic pumping, supporting tissue viability and function.
- Immunocompetent models: incorporates multiple cell types, including immune cells, to replicate complex tissue interactions.
- Scalable complexity: choose from standard kits or combine biochips to build multi-organ systems.
- Human relevant data: enables high content insights for toxicology, disease modeling, and drug screening.
- Biochip quality: medical grade, low compound adsorption materials for consistent performance.

Typical applications

- Organ specific toxicity and drug screening
- Disease and infection modeling with integrated immune components
- Multiorgan interaction studies and DME/PK analyses
- Physiological barrier and transport research
- Preclinical safety profiling and mechanism exploration



Cell Culture Consumables & Accessories



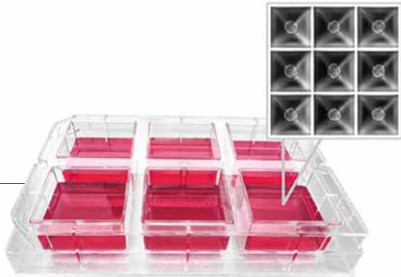
Kugelmeiers Sphericalplate 5D

Born from the clinical need of cell transplantation and stem cell biology, we have developed the Sphericalplate 5D (SP5D). This patented platform technology allows the creation of highly standardised cell spheroids, freely scalable from hundreds for the laboratory to millions for clinical use. Aiming to fulfill highest medical and regulatory standards, seamless translation into diagnostic or clinical use is enabled. Standardized, uniform, size controlled spheroids in large scale.

750 uniform, size-controlled spheroids with one move.
9'000 standardized spheroids per 24-well plate



3'364 uniform, size-controlled spheroids with one move.
20'184 standardized spheroids per 6-well plate.



25 uniform, size-controlled spheroids with one move.
2'400 standardized spheroids per 96-well Strip Format.



12038828	Sphericalplate 5D, 24-well Platte
12101849	Sphericalplate 5D, 96-well Platte
12073317	Sphericalplate 5D, 6-well Platte

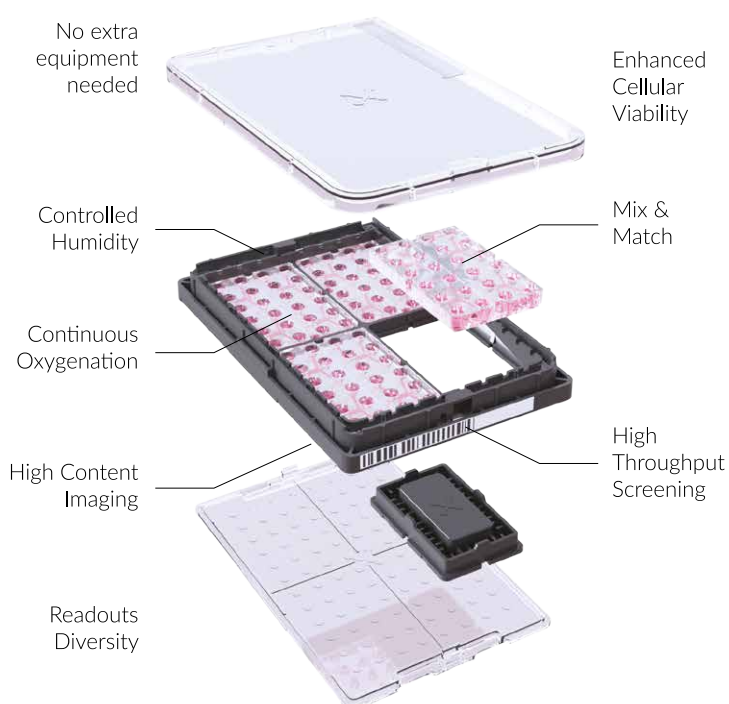
Cell Culture Consumables & Accessories

NETRI NeoBento



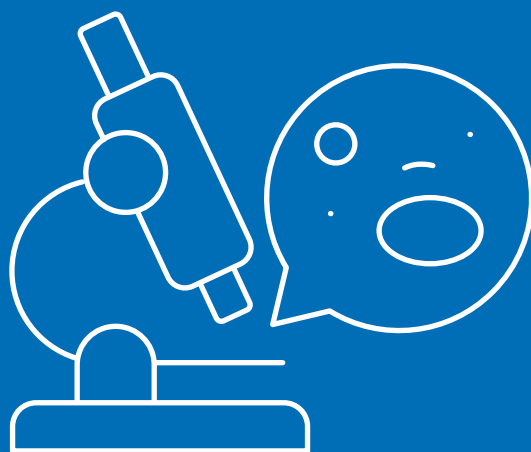
All NETRI's organs-on-chip devices are in NeoBento™ format. Designed for full compatibility with industry-standard handling systems, imaging platforms, and readout devices, NeoBento™ is in the standard 96-well format and is far more than a simple holder. It is built to simplify manipulation, ensure culture hydration, and enable seamless integration of NETRI's organs-on-chip architectures.

In partnership with Axion BioSystems, NETRI has integrated a custom array of 768 electrodes into the NeoBento™ MEA format. Each chip includes 48 electrodes (50 µm) precisely placed across the three compartments and the connecting microchannels. This unique layout captures compartment-specific and inter-compartment activity, with enhanced signal resolution inside the microchannels. NeoBento™ MEA is fully compatible with Maestro™ and Axis Navigator via NETRI's proprietary UpLink™ software.



Chapter 3

Analyse



Cell Culture Consumables & Accessories

NanoPhotometer® NP80 – All-In-One Microvolume & Cuvette Spectrophotometer



The NP80 model integrates both microvolume and cuvette capability into a single compact instrument, enabling precise UV/Vis measurements from as little as 0.3 µL sample volume up to full cuvette absorbance. With a full spectral scan from 200–900 nm in only ~2.5 sec and broad detection ranges for nucleic acids and proteins, NP80 supports a wide range of routine and advanced applications.

- Combined microvolume (down to ~0.3 µL) and cuvette measurements
- Full scan 200–900 nm in ~2.5 sec
- Broad detection ranges: dsDNA 1–16 500 ng/µL, proteins up to 478 mg/mL
- Standalone operation with built-in computing and intuitive interface
- Remote control via Windows, Mac, Android, iOS
- Portable with optional battery power
- No maintenance or recalibration required over lifetime
- Preprogrammed methods for nucleic acids, proteins, OD600, kinetics and more
- Blank Control™ for quality assurance of measurements



Cell Culture Consumables & Accessories

NanoPhotometer® N120 – High-Throughput 12-Channel Microvolume Spectrophotometer



The N120 model is engineered for high throughput microvolume analysis with the ability to measure up to 12 samples in a single run. With full spectral scans from 200–900 nm for each sample in as little as ~1.7 sec per sample and broad dynamic ranges for nucleic acids and proteins, the N120 delivers rapid and reproducible results for busy labs.

- 12 channel microvolume spectrophotometer for parallel sample analysis
- Full spectral range 200–900 nm
- Fast throughput: ~1.7 sec per sample, ~20 sec per full run
- Broad detection range: dsDNA 2–8 000 ng/µL, proteins to 230 mg/mL
- Built-in server with REST API and flexible remote control
- Standalone computing with integrated touch display and battery option
- Blank Control™ and Sample Control™ for quality aware measurements
- Extensive connectivity: Wi-Fi, LAN, HDMI, USB; LIMS integration ready
- Preprogrammed assays for nucleic acids, proteins, OD600, kinetics and more



10062857 Implen NanoPhotometer® NP80 UV/Vis

11037680 Implen NanoPhotometer® N120

Cell Culture Consumables & Accessories

Blue Ray Biotech EzScope® 101

– Live Cell Imaging System for Incubator Based Observation



The Blue Ray Biotech EzScope® 101 is a compact live cell imaging system designed to enable real time observation and documentation of cultures directly inside a CO₂ incubator without disturbance to environmental conditions. By eliminating the need to remove cell cultures for imaging, EzScope 101 helps maintain optimal culture quality while streamlining long term monitoring and time lapse workflows.

Equipped with a high contrast brightfield optical configuration, motorized focusing, and interchangeable objective lenses, EzScope 101 delivers clear, high quality images and supports continuous imaging over extended experiments. The system integrates with easy to use EzCapture software for image acquisition, analysis, and remote monitoring from a connected Windows computer. Up to four units can be operated in a single incubator under centralized control, allowing simultaneous monitoring of multiple samples with minimal environmental variation.

Key features

- Designed for live cell imaging inside CO₂ incubators without culture disruption
- Brightfield optics with white LED illumination and exchangeable 10×/20× objectives
- Motorized focus for precise image adjustment from the control software
- Integrated EzCapture software for snapshot, time lapse, measurement, and analysis
- Supports up to four units per incubator controlled from one computer
- Remote monitoring and time lapse video export for long term experiments

Typical applications

- Real time monitoring of cell morphology, migration, and growth
- Time lapse imaging for phenotypic assays and wound healing studies
- Organoid and spheroid development tracking
- Stem cell behavior analysis and drug response studies



Cell Culture Consumables & Accessories

EVE™ Automatic Cell Counter

Fast results with accuracy and precision

- Applicable for broad range of cell sizes and types
- Primary (tissue, blood) cell lines and stem cells
- Differentiation clumped cell Provides the accurate counting results with advanced analysis algorithm in clumped cell
- Fast counting time obtains the live, dead and viability results in less than 20 seconds
- User friendly Touch screen LCD without any maintenance needed
- Data store and analysis store 500 test results, transfer the data to PC using USB drive
- See your cells via Cell images
- Graphical data representation

C-Slide – new name, same quality, more cost efficient

C-Slide cell counting chamber slides contain two enclosed chambers which can measure two different samples or perform replicates of the same sample.

NanoEnTek



11004470	EVE™ Automatic Cell Counter
11004382	C-Slide Cell Counting Chamber Slides, 50 pcs

Cell Culture Consumables & Accessories

IST Innuscreen – DNA/RNA Extraction Kits

IST Innuscreen GmbH

Highly efficient and accurate, IST Innuscreen's wide product range and technologies are the lifeline for any lab involved in nucleic acid extraction and detection.

The innuPREP RNA Mini Kit 2.0 is the all-rounder for the extraction of total RNA. The specially optimized lysis buffer system guarantees the isolation of intact RNA and sustainably inactivates endogenous and exogenous RNases.



Cell Culture Consumables & Accessories

Azure Imager



Azure Biosystems is a life sciences company dedicated to advancing scientific research into new areas, developing high-end imaging and real-time PCR systems that combine smart, simple workflows with high performance and affordability to accelerate science.

Sapphire FL Biomolecular Imager

The Sapphire FL is the ultimate biomolecular imager for flexibility. Now also for imaging living animals and much more.

12073943 Sapphire FL Biomolecular Imager

chemiSOLO Imager

The new personal chemiluminescence imager delivers high-quality, quantitative chemiluminescence and visible protein gel images with unique web-based control software.

12067234 chemiSOLO Imager



Cell Culture Consumables & Accessories

highQu ORA™ qPCR Probe Mix



Are you looking for the best tools to run your molecular biology experiments faster and smarter? At highQu you'll find all you need. Choose from a compact and easy to choose selection of our PCR and qPCR enzymes, mixes and kits. Try them and you will be convinced about the excellent performance of highQu reagents.

highQu qPCR mastermixes are based on the small molecular inhibitor technology Hot Start PCR allowing to achieve highest sensitivity and specificity under both standard and fast qPCR cycling conditions. They provide excellent results on both AT and GC rich templates, in multiplexing and guaranty rapid extension with early Ct values with minimum or no optimization.

SampleIN™ Direct PCR Kit is a premium tool for a fast direct PCR eliminating the need of tedious template purification. The kit is excellent for direct PCR from mouse tail or ear, mammalian tissues, hair follicle, buccal swabs and blood.



Cell Culture Consumables & Accessories

Electroporation Cuvettes



Maximise efficiencies for bacteria, yeast, insect, plant and mammalian cells

- Low Dead Volumes – to reduce sample usage
- Universal Fit & Sterile – compatible and guaranteed
- Fine Tolerance Moulding – for consistent gap width
- Unique Cap Design – improves seal and its use
- Choice of Electrode Types – improves sample handling



10040271	1 mm cuvettes, long electrode, individually wrapped & sterile, 50 pcs
10040272	2 mm cuvettes, long electrode, individually wrapped & sterile, 50 pcs
10040270	4 mm cuvettes, individually wrapped & sterile, 50 pcs

Cell Culture Consumables & Accessories

ZEISS Axiovert 5 – Inverted Microscope for Cell Culture Imaging



The ZEISS Axiovert 5 is a smart, all in one inverted microscope system engineered for efficient live cell observation, documentation, and multichannel imaging in cell biology and research laboratories. Combining high quality optics with intuitive operation, Axiovert 5 delivers crisp images with minimal setup – so users can focus on their samples and workflows rather than complex instrument adjustment.

Axiovert 5 supports a broad range of contrast methods in transmitted light – including brightfield, phase contrast, DIC, iHMC – and integrates easily with fluorescence imaging using LED illumination and ZEISS microscope cameras. With its smart imaging workflow, intuitive controls, and modular software options ranging from standalone capture to AI assisted analysis, the system streamlines routine imaging while supporting reproducible results across applications.



Key features

- All in one inverted microscope optimized for cell culture imaging and documentation
- Smart microscopy workflow: focus, press Snap, and acquire high quality images directly at the instrument
- Supports standard transmitted light contrast modes (phase, DIC, iHMC) and multichannel fluorescence imaging
- Automatic exposure and channel switching for fluorescence with Colibri LED illumination
- Intuitive control with optional software integration (ZEISS Labscope or ZEN) for acquisition, analysis, and connectivity
- Optional AI assisted modules for automatic cell counting and confluency measurements

12083855	Mikroskop Axiovert 5/7 KMAT
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Chapter 4

Disposal



Cell Culture Consumables & Accessories

SHP Steriltechnik Autoclaves



Reliable Steam Sterilization «Made in Germany»

SHP Steriltechnik autoclaves are engineered for dependable, reproducible steam sterilization across laboratory, research, pharmaceutical, food & beverage, and medical environments. Designed and manufactured in Germany, the Laboklav series combines robust construction, flexible configuration options, and advanced control technology to meet diverse sterilization demands with safety and efficiency.

Overview of Available Models

• Small Bench-Top & Compact Units

Laboklav 25 Series – Compact tabletop autoclaves ideal for small labs or auxiliary sterilization tasks. Available in multiple configurations including basic, with rapid cooling (M), with vacuum (V), or combined (MV). Suitable for sterilization of liquids, solids, and waste in limited volumes.



Mid-Range Laboratory Autoclaves

• Laboklav 55 / 80 / 100 Series

Versatile autoclaves with chamber volumes from ~55 L to ~100 L. These units can be installed horizontally or vertically to suit workspace constraints and are suitable for routine sterilization of liquids, instruments, and laboratory materials.

High-Capacity & Central Sterilization Models

• Laboklav 44x

Laboratory autoclave with rectangular chamber geometry that maximizes usable space for efficient sterilization of larger loads. Standard vacuum system and flexible media sensors support reliable liquid sterilization with thermal safety interlocks.

• Laboklav 66xx Series

Larger autoclaves with chamber volumes up to ~897 L, designed for central sterilization workflows and industrial applications. Available in single- or double-door configurations with powerful vacuum systems, water-saving cooling, and extensive optional features such as rapid cooling and exhaust air filtration.



- **German Engineering & Robust Construction:** Full stainless steel chambers, heating jackets, doors, and housings ensure hygiene, corrosion resistance, and long service life.
- **Flexible Configurations:** Horizontal or vertical installation options, multiple chamber sizes, and customizable accessories (transport systems, baskets, compressors, printers, etc.) enable tailored solutions to specific laboratory needs.
- **Advanced Control & Safety:** 7" touch display with intuitive interface, PLC control, and optional remote access via VNC/app. Integrated vacuum systems, PT100 flexible media sensors, and safety interlocks meet IEC and pressure equipment directives.
- **Efficient Sterilization Cycles:** Integrated steam generation and optimized power matching to chamber sizes reduce cycle times and operating costs while delivering reproducible performance for liquids, solids, and waste.
- **Compliance & Documentation:** Designed and certified to current pressure equipment standards with options for cycle documentation and data export to support quality systems (GLP/GMP)

Cell Culture Consumables & Accessories

Biohazard Disposable Bags, PP



- Polypropylene bags include black biohazard symbol and precautionary procedures printed in four languages (English, Spanish, French, German) for added safety.
- These bags are easy to open and close and used to dispose biohazard waste and other plastic laboratory disposables.
- High temperature steam autoclavable to 135°C (275°F)



U40105	Biohazard Disposable Bags, PP, 12 x 18 inch, 200 units
U40106	Biohazard Disposable Bags, PP, 12 x 24 inch, 200 units
U40103	Biohazard Disposable Bags, PP, 18 x 22 inch, 200 units
U40104	Biohazard Disposable Bags, PP, 25 x 25 inch, 200 units
U40114	Biohazard Disposable Bags, PP, 24 x 31.5 inch, 200 units

Cell Culture Consumables & Accessories

Autoclavable Bags, PP – Transparent, Durable & Heat-Resistant



ABDOS Autoclavable Bags provide a dependable solution for the sterilization and disposal of laboratory plastics. Their strong polypropylene composition ensures resistance to heat and chemicals commonly used in autoclaving. Transparent, leak-proof, and easy to handle, these bags are essential for maintaining hygiene and safety in controlled lab environments.

- Polypropylene bags include black biohazard symbol and precautionary procedures printed in four languages (English, Spanish, French, German) for added safety.
- These bags are easy to open and close and used to dispose biohazard waste and other plastic laboratory disposables.
- High temperature steam autoclavable to 135°C (275°F)



U40108	Autoclavable Bags, PP, 16 x 18 inch, 100 units
U40109	Autoclavable Bags, PP, 16 x 18 inch, 100 units
U40112	Autoclavable Bags, PP, 8 x 12 inch, 100 units
U40113	Autoclavable Bags, PP, 12 x 24 inch, 100 units
U40116	Autoclavable Bags, PP, 25 x 25 inch, 200 units

Cell Culture Consumables & Accessories



Sterilization Pouches

Useful for any laboratory, medical, dental or veterinary device

- The pouches tightly close with a self-sealing strip to maintain sterility
- Quick content identification, because the content remains always visible through PET / CPP transparent laminated films
- Suitable for steam and EO gas sterilization
- Two sterilization indicators
- Five different sizes
- Conformity to ISO 17665-06, ISO 11135, CE



3210.0816	Med. grade paper/PET/ CPP, 83 x 160 mm, 200 / pk
3210.0926	Med. grade paper/PET/ CPP, 90 x 260 mm, 200 / pk
3210.1326	Med. grade paper/PET/ CPP, 135 x 260 mm, 200 / pk
3210.1936	Med. grade paper/PET/ CPP, 190 x 360 mm, 200 / pk
3210.2537	Med. grade paper/PET/ CPP, 250 x 370 mm, 200 / pk
3210.304	Med. grade paper/PET/ CPP, 300 x 395 mm, 200 / pk
3210.3049	Med. grade paper/PET/ CPP, 300 x 490 mm, 200 / pk

Cell Culture Consumables & Accessories



Mini Vacuum Pump

Mini-Vac combines all advantages of aspiration, disposal and filtration of biological and chemical fluids. The Mini Vacuum Pump features a powerful vacuum, space-saving footprint and a low noise level. Aspiration of fluids, such as cell culture media, cell suspensions, supernatants etc., disposal of biological and chemical waste fluids.

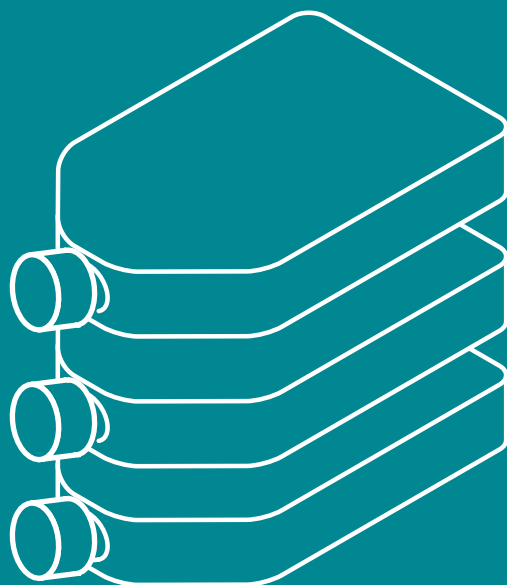
- Very strong pump (9.5 l / min)
- Vacuum filtration and degassing of fluids
- Powerful vacuum, adjustable from 0 to -900 mbar
- Very effective noise insulation (< 60 dB)
- All parts in contact with fluids are autoclavable
- Adjustable vacuum for gentle aspiration of small volumes
- Innovative design · Easy to clean and to carry (handle)
- Possibility of installing a second Vacuum-Hand handle onto the same device
- External level sensor prevents damage to the pump and abolishes the need to clean the sensor



11037004	Mini-Vac vacuum pump with accessories, 2 L set
12052659	Mini-Vac vacuum pump with accessories, 4 L set

Chapter 5

Storage



Cell Culture Consumables & Accessories

KW APPARECCHI SCIENTIFICI

Cooling Solutions



Maximum flexibility in the laboratory – KUB75

The KUB75 offers an ideal solution for everyday laboratory operations: The -80°C freezer can be placed directly beneath the laboratory bench, eliminating the need for repeated trips to a separate ULT room. Samples can be stored quickly, safely, and conveniently in the freezer under the bench directly in the laboratory – efficient and time-saving.

Ultra Slim Line – Minimal Footprint

The Ultra-Slim series features exceptionally thin insulation, significantly reducing the footprint without compromising performance or temperature stability. Ideal for laboratories with limited space.

Alternative Versions

In addition to the vertical models, the following options are also available: Horizontal chest freezers or the BioBank line – depending on requirements for capacity, safety, and workflow.

BioBank Line – Maximum Security for Valuable Samples

The BioBank freezers have been specifically developed for the long-term and secure storage of sensitive samples.

Twin Group Technology – Double Safety

- Two fully independent, cascaded two-stage cooling systems
- Alternating operation of the two cooling circuits
- Doubling of service life, as each compressor runs only about half as long as in conventional systems

No Downtime – Maximum Operational Reliability

- Constant temperature of -80°C , even when only one cooling system is active
- No failure in the event of a compressor defect
- Service and repairs possible during ongoing operation
- Therefore, no interruption of sample storage

Rapid Temperature Recovery

After door opening, both cooling systems are temporarily activated to:

- Re-cool small sample quantities particularly quickly
- Achieve a temperature pull-down from $+15^{\circ}\text{C}$ to -80°C in less than 2 hours



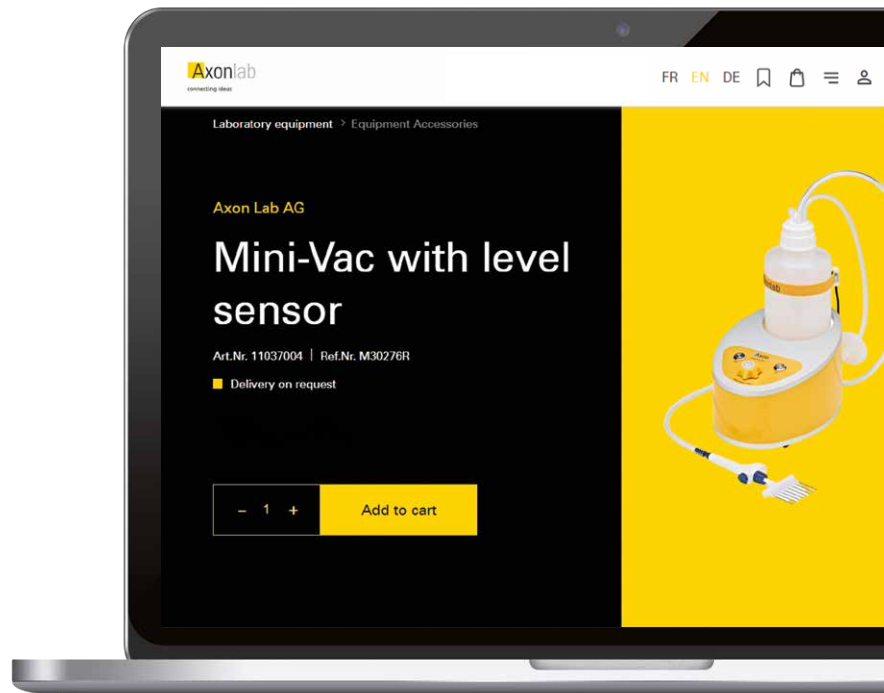
	Model	Capacity	Internal dim.	External dim.	Boxes
Under the counter	KUB75	86	428 x 343 x 588	990 x 635 x 780	48
Horizontal	K54	230	1150 x 400 x 500	1500 x 870 x 1270	128
	K55	476	1220 x 520 x 750	1935 x 910 x 1100	288
	K58	349	490 x 570 x 1248	765 x 935 x 1875	240
Ultra slim line	K60	501	588 x 656 x 1300	885 x 1032 x 1949	320
	K62	577	600 x 770 x 1248	875 x 1110 x 1875	400
	K66	831	730 x 850 x 1340	994 x 1141 x 1965	600

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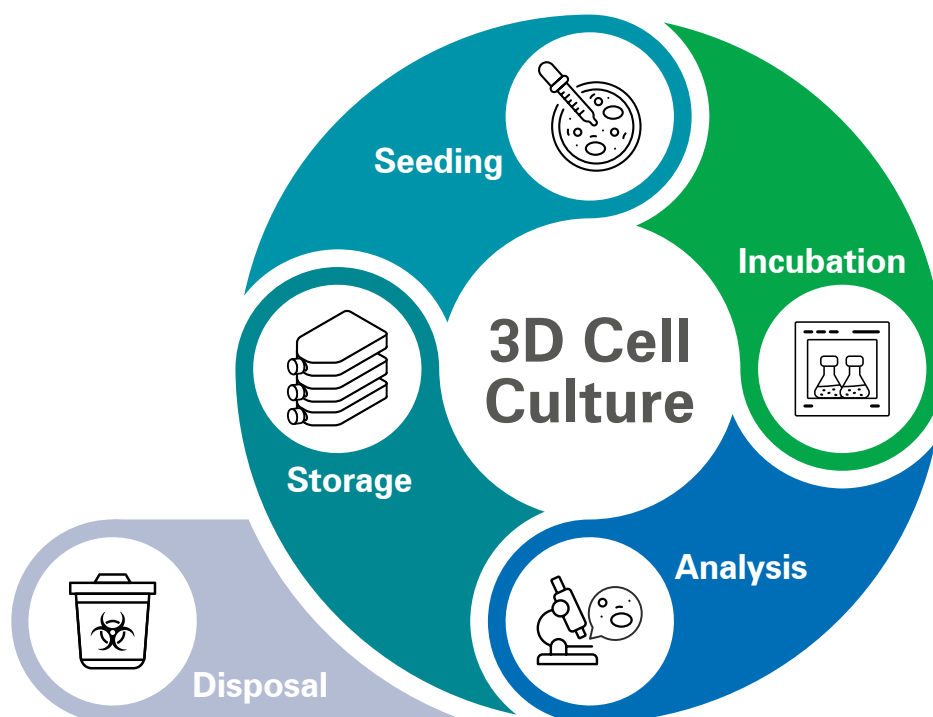


Axonlab connecting ideas

We do what we do out of conviction - We are committed to contributing to the health and well-being of people. For this reason, we offer much more than just products from reputable and international suppliers. We guarantee our customers personal care, professional service and individual solutions.

3D Cell Culture

Better models – better decisions.



Headquarters

www.axonlab.com

Axon Lab AG

Täferstrasse 15
CH-5405 Baden-Dättwil
Tel. +41 56 484 80 80
info@axonlab.ch
info_f@axonlab.ch

Affiliates

Austria
Belgium
Croatia
Czech Republic / Slovakia
France

(for details please refer to www.axonlab.com)

info@axonlab.at
info@axonlab.be
info@axonlab.hr
info@axonlab.cz
info@axonlab.fr

Germany info@axonlab.de
Luxembourg info@axonlab.lu
Netherlands info@axonlab.nl
Poland info@axonlab.pl
Slovenia info@axonlab.si