



02k Technology for Mitochondria and Cell Research

- Respiration measurement at controlled O₂ levels, NADH and CoQ, ROS production, mitochondrial membrane potential, ATP production, Ca²⁺, and pH
- High-Resolution PhotoBiology - Photosynthesis and dark respiration



Precision Optical Sensors

- Head space oxygen and DO in injectable vials & blister packs
- Online monitoring - O₂, pH and biomass in shake flasks
- Optical online DO probe for all bioreactors (do not require polarization)
- O₂ sensor spots for flexible measurement



Cell Isolation / Culture Experts

- Automated systems like cell separator, thawing system for frozen cells, colony counter for hematopoietic CFU Assay
- Compact Bioreactor for iPSC, hypoxia chamber
- cGMP Media for cell and gene therapy
- Cell culture, maintenance, differentiation, storage media and supplements (Immunology, iPSC, MSC, hematopoietic, mammary, neural)
- CHO and hybridoma production media & related products
- Density gradient media, sepmate tube for PBMC isolation
- Immunomagnetic, non-immunomagnetic cell separation kits
- Smartdish, culture dish, STEMgrid-6, PP/PS Tubes
- Organoids - lung, pancreas, intestine, liver, gastric, neural cerebral
- StemPREP - Tissue Dissociator

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Laboratory Centrifuges

- Microcentrifuges / cyto centrifuges
- Refrigerated/non-refrigerated tabletop centrifuges
- High speed tabletop centrifuge (30,000 RPM & 70,121 x g)
- High capacity refrigerated and heatable centrifuges (3 litres)
- Floor standing centrifuges up to 12 litres
- Blood bank centrifuges



Immunohistochemistry and Immunofluorescence Reagents

- Vectastain ABC, ImmPRESS polymer staining kits
- Lectins, mounting media, counter stains, antibodies
- Antigen retrieval reagent, autofluorescence quenching kit
- Enzyme substrates, hydrophobic PAP pen
- Neuronal tracers & glycobiology reagents
- Cross-Linkers, glycan analysis, protein detection/visualization
- Fluorescent probes and dyes



a xylem brand

Biochemistry Monitor & Control

- Measurement of glucose, lactate, glutamate, glutamine, ammonium & potassium
- Measurement of xylose, glucose in biofuel
- Auto sampling from bioreactor

Other Products

- Euromex, The Netherlands - Inverted / Upright / multi-headed & stereo zoom microscopes
- Rockland, USA - Antibodies and Reagents for WB & IP
- Hirschmann, Germany - Multi channel peristaltic pump & Fluid Handling Solutions
- ZEISS, Germany – Upright, inverted, binocular, trinocular, fluorescence, and stereo zoom microscopes
- Metallurgical and multiheaded microscopes
- Cytogenetic applications microscopes

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Labmate (Asia) Pvt. Ltd.
Sowing Science

Product Profile



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Mobile: +91 99406 12128 | Phone: 044 2220 0066 / 0166

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Online Viable Biomass Monitoring

- In bioreactors for microbial and cell culture application
- Real time monitoring of viable yeast pitching in breweries
- Online total biomass monitors
- Handheld total biomass monitor



Cell Morphology Bio-sensor

- Study of cellular attachment, growth, metastatic potential, barrier and invert function
- Wound healing and electroporation in multiple wells
- Trans-Epithelial/Endothelial electrical resistance (TEER) measurements



Affinity chromatography & Bioseparations solutions

- Purification resins for insulin, glycoproteins & antibodies
- Ion exchange, affinity, hydrophobic interaction chromatography & screening products
- Contaminant removal resins, columns & accessories
- AstreAdept™ Nanofiber-based Cell and Gene Therapy Purification Technology
- The Nereus LentiHERO™ to enable high recovery of purified lentiviral particles



Electroporation, Electrofusion, Embryo manipulation

- Microbial, plant, mammalian cell electroporation
- Electrocell fusion, hybridoma production, embryo manipulation systems, CRISPR-Cas9 transfections
- High throughput (96 sample) and *in-vivo* option
- Patented system for intramuscular & intradermal delivery of DNA vaccine

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Tissue Homogenizers & Air Sampler

- Fast, efficient, powerful 3D bead beating technology
- Flexibility – 0.3, 0.5, 2, 7, & 15 mL lysing tubes.
- High throughput - 96 position
- Microbial air sampler - Coriolis



Bruker Preclinical Imaging Solutions

- Spectral Instruments Imaging: High-sensitivity bioluminescence and fluorescence imaging for small animals.
- Molecubes: Next-generation PET, SPECT, and CT systems for small animals delivering industry-leading resolution and sensitivity.
- *In vivo* & *Ex-vivo* Micro-CT & Nano-CT: Low-dose, high-resolution imaging with variable magnification. Nano-CT for ultra-fine *ex vivo* structural analysis, ideal for preclinical and materials research.

High-Throughput Single-Cell Functional Screening

- Beacon Optofluidic system
- Proprietary chip design with light-based, non-invasive and real-time assays
- Antibody discovery, cell line development and Cell therapy research

Microbial Identification

- Bruker MALDI Biotyper delivers rapid, accurate microbial identification in minutes using cutting-edge mass spectrometry
- It offers exceptional database coverage with thousands of validated species, ensuring confidence in every result
- With minimal sample prep and low running costs, it's the gold standard for reliable ID in QC Micro pharma, food, and research labs



Freeze Dryers / Lyophilizers

- Lab & pilot scale models for vial & tray drying
- Freeze dryer for solvent application
- Rotational vacuum concentrators
- Special Trays, membranes and Bags for Freeze drying API Products from **Teclen**. GMP compliance

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Tools for Epigenetics and Chromatin Biology Research

- Histone peptide array for high throughput screening
- Recombinant mononucleosomes, HeLa nuclear extract
- SNAP-CHIP panels, CUTANA assays



Horizon

Translational Genomics Solutions

- Reference standards for whole genome and NGS
- CRISPR engineered cell lines(HAP1)
- CHO cell line for bio-production



Bioreactors (Bacterial / Cell Culture)

- Autoclavable bioreactor - upto 10L
- *In situ* and Parallel bioreactors (Lab/Pilot)
- Super safe sampler (aseptic sampling system)

Shakers (Microbial/Cell cultures)

- Benchtop / floor model Shakers (up to 3 Decks)
- CO₂ and humidity control for cell culture
- Magnetic shaker to be used in CO₂ incubators



Equipments for Microbiology Lab

- Dilutors - Automatic weight-based dilution for accurate and reproducible microbiological analysis.
- Programmable Peristaltic Pump - Precise and hygienic liquid dispensing for media filling and sample transfer.
- Blenders - Fast, contamination-free homogenization of microbiology samples in sterile bags.
- Spiral Platers - Automated agar plating ensuring consistency while reducing media usage.
- Manual Colony counter - Reliable LED-based colony counting with ergonomic design.
- AI-Based Colony Counters - Intelligent image analysis for rapid, operator-independent colony counting.
- ScanStation - Automated incubation with real-time imaging and early microbial growth detection.

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- Upright Multi-Headed Microscopes (Co-observer, Face-to-Face, and up to 10 Observers)
- Fluorescence Microscopes
- Metallurgical Microscopes
- Stereo Zoom Microscopes
- Digital Microscopes with integrated camera and LCD Screen
- Macro Zoom Microscopes with Built-in HD Camera and LCD Screen



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