



PRECISION LIFE SCIENCES & COLD-CHAIN INTEGRITY

6

GLOBAL PARTNERS

20+

YRS EXPERIENCE

MEA

COVERAGE

DSO

DUBAI HQ

BIOLOGICS & CELL DISCOVERY

GENOMICS

ADVANCED IMAGING

PRECISION MEDICINE

COLD-CHAIN INTEGRITY

CELL & GENE THERAPY

LIQUID HANDLING

THE ZYMERA HUB

A specialized techno-commercial FZCO centralizing the procurement and distribution of high-end scientific infrastructure across the MEA region. Built on 20+ years of domain expertise — bridging global innovation to regional needs.



DUBAI SILICON OASIS HQ

Building A1, Dubai Digital Park — DSO-IFZA, IFZA Properties. Positioned at the heart of UAE's tech & life sciences corridor for seamless Free Zone operations.



MAINLAND DISTRIBUTION

UAE mainland clinical distribution capability via vetted logistics partners, with full MOHAP-regulated medical device handling. Coordinated through info@zymerabio.com.



REGULATORY EXPERTISE

Proven track record with Emirates Drug Establishment (EDE) approvals and Dubai Trade clearances. Full compliance with MOHAP regulations for medical device imports.



MULTI-CURRENCY FINANCE

Dedicated accounts via Mashreq NEO BIZ with AED, USD & EUR accounts. Transparent Zoho-managed transactions. SWIFT: MSQHAEAD.



HUB & SPOKE MODEL

FZCO serves as exclusive Bill-To for global procurement and Cross-Trade. MEA re-export operations handled directly through IFZA Free Zone infrastructure.



STRATEGIC VISION

Evolving from specialized scientific trading into a biological manufacturing leader — supporting the long-term growth of the regional biotech ecosystem.

LEGAL NAME

Zymera Biosynthetix FZCO

TRADE LICENSE

79827

REGISTRATION NO.

78078

TRN (VAT)

105373571600003

INCORPORATED

February 16, 2026

WEBSITE

www.zymerabio.com

UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for MetaSystems Probes GmbH — supplying the complete XCyting DNA FISH probe portfolio to clinical cytogenetics, hematology, oncology, and pathology laboratories across the UAE.

**IVDR Certified — EU Regulation (EU) 2017/746**

IN VITRO DIAGNOSTIC REGULATION · HIGHEST REGULATORY STANDARD

MetaSystems Probes holds full IVDR certification — the most rigorous IVD regulatory framework globally. All IVDR-certified XCyting probes carry notified body certification ensuring clinical-grade performance, traceability, and post-market surveillance.

EU 2017/746

Notified Body

Clinical Grade

Full Traceability

Hematology · Oncology · Prenatal

[• Download IVDR Portfolio →](#)**IVDR**

EU IVD Regulation

RUO

Research Use Only

XL · Locus-Specific Probes**IVDR****RUO**

BCR/ABL1, HER2, ALK, EGFR, MYC and 200+ loci. Break Apart, Dual Fusion, Deletion, Amplification formats for hematology and solid tumors.

CML/AML/MDS

ALL/CLL/MM

Solid Tumors

Break Apart

Dual Fusion

XA · Aneusomy Probes**IVDR****RUO**

AneuScore kits for Chr 13, 18, 21, X, Y. Rapid aneuploidy screening in amniocytes and chorionic villus samples.

AneuScore I/II/III

Prenatal

Postnatal

XOD · Custom Probes On Demand**RUO**

Bespoke FISH probe design for unique genomic targets — ideal for translational research and novel rearrangement studies.

XCP / XCE · Chromosome Paints**RUO**

24XCyte mFISH kit for complete karyotyping. mBAND high-resolution banding analysis.

24XCyte mFISH

mBAND

[BROWSE ALL PROBES →](#)[IVDR CERTIFIED](#)[XOD CUSTOM](#)



• COMPLETE PRODUCT CATALOG

MetaSystems Probes — First Edition

Full probe portfolio with product codes, specifications, and regulatory status.

↓ [Download PDF Catalog](#) —

• CERTIFICATES & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD



ISO 13485:2016 Certificate

EN ISO 13485 · Probes · Notified Body Certified



ISO 13485 Certificate (USA)

MetaSystems USA Quality Certificate



IVDR Certificate 751166

EU Reg. 2017/746 · BSI Notified Body



Certificates of Analysis (CoA)

Per-lot batch certificates

[View all certificates & documents](#) ↗



New Brochure

Explore Our Extended Portfolio of
IVDR-Certified XCYting FISH PROBES!

[Download Brochure](#)



NEW BROCHURE

MetaSystems Probes — First Edition Catalog. Full product range, codes, specifications, and regulatory status.

↓ [Download Brochure](#)

New XOD Out Now!

Discover Our XCYting
On Demand DNA FISH PROBES.

[Learn more](#)



XOD · CUSTOM PROBES ON DEMAND

Full technical brochure for the XCYting On-Demand DNA FISH PROBES range.

↓ [Download XOD Brochure](#)



MANUFACTURED IN
Altlussheim, Germany

UAE TERRITORY
Exclusive Rep

CLINICAL DISEASE AREAS

- | | |
|--------------------|-----------------|
| • Leukemia | • Lymphoma NHL |
| • Multiple Myeloma | • MDS / MPN |
| • Solid Tumors | • Prenatal |
| • CLL | • Microdeletion |

HIGHLIGHTED PROBES

XL BCR/ABL1 plus	IVDR
XL ERBB2 (HER2) amp	IVDR
XA AneuScore Series	IVDR
24XCyte mFISH Kit	RUO
XOD Custom Probes	RUO

metasystems-probes.com

Est. 1986

"Successfully delivering German precision to UAE clinical laboratories since 2026."



Rollout has started!

Discover our growing portfolio
of IVDR-certified FISH probes.

[Learn more](#)



UAE ROLLOUT NOW LIVE

Growing portfolio of IVDR-certified FISH probes now available in the UAE.

[Download IVDR Portfolio](#)

UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for MetaSystems Hard & Software GmbH — the imaging systems and software arm of the MetaSystems family. Their platforms integrate **Deep Neural Networks (DNNs)** for automated chromosome classification, karyotyping, and metaphase scanning.

- **Deep Neural Networks (DNNs) — AI at the Core**

US & EU PATENTED · EU IVD COMPLIANT

DNNs trained on thousands of clinical cases automatically segregate and classify banded chromosomes, generate karyogram proposals, and detect metaphase cells. MetaSystems holds a **US Patent** for AI-based chromosome analysis, and was granted **EU Patent EP3811287** for its Metafer-based DNN method for AI-assisted imaging of biological samples. [Read the announcement ↗](#)

Auto-Classification

Karyogram Proposals

Metaphase Detection

US Patented AI

EU Patented AI

Multi-Tissue

- **CERTIFICATES & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD**

**ISO 13485:2016 Certificate**

EN ISO 13485 · Instruments · BSI Certified

**ISO 13485 Certificate (USA)**

MetaSystems USA Quality Certificate

**MDSAP Certificate**

Medical Device Single Audit Program

[View all certificates & documents ↗](#)

- **METASYSTEMS FAMILY · MADE IN GERMANY**

MetaSystems Hard & Software GmbH (devices & software) and MetaSystems Probes GmbH (reagents) are two specialised arms of one German company. Zymera Biosynthetix is the exclusive **UAE representative** for both.

- **Metafer 4.4**

IN VITRO DIAGNOSTIC MEDICAL
DEVICE

Fully automated slide scanning with
DNN-powered metaphase detection,
FISH spot counting, and tissue analysis.

- **Ikaros 7**

IVD · US PATENTED AI

Industry standard karyotyping with
DNN chromosome segmentation.
Supports lymphocytes, bone marrow,
amniotic fluid, chorionic villi.

- **Neon 2.0**

DATA & CASE MANAGEMENT

Centralized multi-user case and image
management connecting Metafer,
Ikaros, and LIMS systems.

LAB CUSTOMIZATION AREAS

Cytogenetics

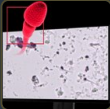


~40 years of digital microscopy expertise. DNN-based karyotyping via Ikaros, scalable multi-user metaphase scanning.

- Metaphase Detection
- Spot Counting
- TissueFISH

- Download CP — Metaphase Detection
- Download CP — Spot Counting
- Info Dossier — IKAROS 7.0 Features

Forensics

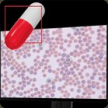


DNN-powered automated sperm detection workflow helps clear laboratory backlogs in sexual violence casework.

- Sperm Detection

- Download CP Brochure
- Info Dossier — FSPD
- White Paper — FSPD

Toxicology

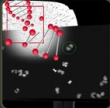


GLP-compliant, OECD-aligned automation for genetic toxicology testing — standardized scoring, reproducible results.

- Metaphase Detection
- Aberration Scoring
- Comet Assay
- MN Test
- Ames Test

- Download CP Brochure
- White Paper — Metafer in Genetic Toxicology Testing

Biological Dosimetry



Microscope-based quantification of biological markers for rapid, standardized radiation dose assessment networks.

- Metaphase Detection
- Aberration Scoring
- Comet Assay
- Foci Counting

- Download CP Brochure

Digital Pathology



Brightfield, fluorescence, DIC & darkfield combined in one Metafer workflow, with DNN-assisted evaluation.

- Slide Digitization
- TissueFISH

Microbiology

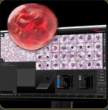


Automated digitization of Auramine-stained microbial samples with custom DNN pre-qualification workflows.

- Mycobacteria Detection

- Download CP Brochure

Cytology



DNN-based Extended Blood Cell Detection for automated WBC differential count and leukocyte morphology classification.

- Blood Cell Detection

- Download CP Brochure

HARDWARE COMPONENTS

LED Light Source — MetaLED FL for Fluorescence

Silent LED light source for fluorescence imaging. Homogenous illumination and high luminous flux.

- Download Datasheet

CMOS Camera — CoolCube 1P for Monochrome or Color Imaging

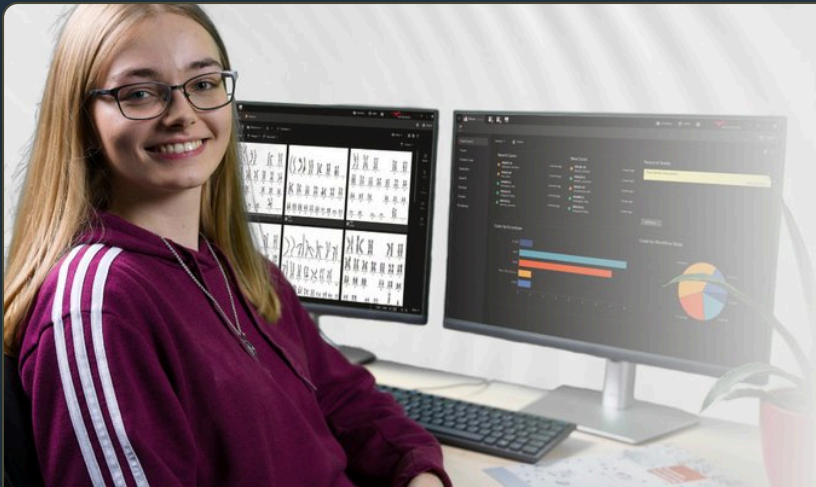
USB camera for either monochrome or color image capture. Superior signal-to-noise ratio enabled by intelligent binning technology.

- Download Datasheet

[ALL PRODUCTS →](#)

[CUSTOMIZATIONS](#)

[WEBSITE ↗](#)



Neon 2.0

*Your Entire Workflow.
At a Glance.*

[Learn more](#)

NEON 2.0 • CASE & IMAGE DATA MANAGEMENT

Centralized case and image data management across your entire lab workflow.

[↓ Download Neon Brochure](#)



Metafer 4.4

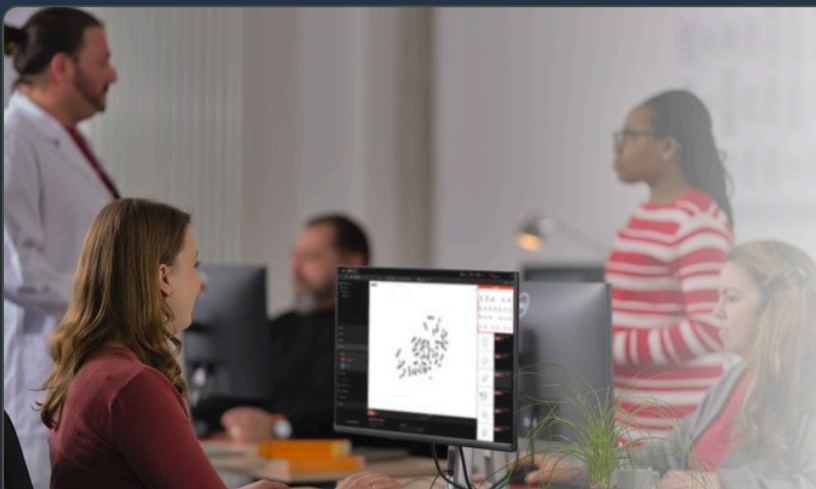
*Scan.
With Confidence.*

[Learn more](#)

METAFER 4.4 • SCAN WITH CONFIDENCE

Fully automated slide scanning with DNN-powered metaphase detection.

[↓ Download Metafer Brochure](#)



Ikaros 7.0

*Everything You Know.
Just Improved.*

[Learn more](#)

IKAROS 7.0 • EVERYTHING YOU KNOW, JUST IMPROVED

Industry-standard karyotyping with DNN chromosome segmentation.

[↓ Download Ikaros Brochure](#)

UAE AUTHORIZED REPRESENTATIVE

Fourtec (Fourier Technologies) is a globally recognized leader in data-logging and environmental monitoring with 30+ years of experience. Zymera brings Fourtec's end-to-end solutions to UAE pharmaceutical, clinical, and laboratory environments.

● DataNet Wireless System



Real-time wireless monitoring for pharmaceutical storage and GMP environments. ZigBee RF mesh network on the license-free 2.4GHz band, with auto-rerouting, long-range transmission, and SMS/email/siren alarm notifications — managed via DataSuite software.

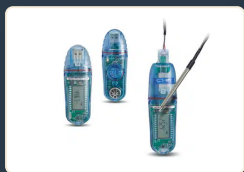
DNR900A

DNL910A Temp

DNL920A Temp+RH

[↓ Brochure PDF](#)

● MicroLite USB Loggers



Compact USB data loggers for temperature, humidity, current & voltage — direct USB connection, no cables required. The Boomerang feature auto-emails PDF reports on PC connection; up to 32K cyclic memory, with free DataSuite & FourtecLite app support.

LITE5008L

LITE5032L

LITE5032L-RH

LITE5032L-V-A Voltage

LITE5032L-ETX

[↓ Brochure PDF](#)

● MicroLogPRO III Loggers



Standalone display loggers with local LCD readout for cold rooms and lab storage. Internal temperature & humidity sensors plus external NTC input, Boomerang auto-email PDF reports, up to 52K sample memory and up to 2-year battery life — water/dust resistant and DataSuite/FourtecLite compatible.

EC800-A Temp

EC850-A Temp+RH

[↓ Brochure PDF](#)

● BluLite Bluetooth Logger

Accurate Bluetooth Low Energy logger for temperature (-20 to 60°C) and relative humidity (0-90%) with 32,000-sample cyclic memory. Connects directly to PC, tablet or mobile via DataSuite or the FourtecLite app; Boomerang auto-email alerts, IP54 rated, 21 CFR Part 11 compliant.

BluLite Bluetooth

[↓ Brochure PDF](#)

● **MicroAir WiFi Logger**

Real-time WiFi-connected logger with integrated temperature & humidity sensors and an external NTC input. 802.11 b/g/n transmission managed via DataSuite or the FourtecLite app; Boomerang auto-email, 50K sample memory, rechargeable battery, IP54/NEMA4 rated, 21 CFR Part 11 compliant.

[MicroAir WiFi](#)[↓ Brochure PDF](#)

● **PicoLite USB Logger**

Compact, easy-to-use limited-use USB temperature logger for cold-chain transport. weBoomerang™ auto-emails trip reports to the shipper on connection; 16,000-sample memory, bi-colour alarm LED, IP68 rated, ~6-month CR2032 battery life — low cost, high reliability single-trip monitoring.

[PicoLite](#)[↓ Brochure PDF](#)

● **SingleRide PDF Logger**

Small, light and waterproof single-trip logger packaged in food-safe packaging for monitoring food, pharmaceutical, art, floral and blood transport. Recording starts/stops at the press of a button; plug into any PC USB port for an instant PDF report — no software or drivers required. 8,640-sample capacity, preset alarm levels (2°C/8°C), IP67 rated, complies with EN12830, 21 CFR Part 11.

[SingleRide PDF](#)[↓ Brochure PDF](#)

● **SingleRide RH+Temp PDF Logger**

Small, robust single-use Temperature & Humidity USB logger (6 data points) for monitoring temperature/humidity-sensitive goods in food manufacturing, pharma, laboratories and art delivery. One-button start/stop; plug into any PC USB port for an instant PDF report with no software or drivers. 17,280-sample capacity, 2-year shelf life, IP40 rated, complies with EN12830.

[SingleRide TH PDF](#)[↓ Brochure PDF](#)

● **Dry Ice PDF Logger**

Wide-range, extra-low temperature logger (-80°C to 70°C) for dry ice shipments, vaccine storage, cold chain, refrigerators and laboratories. Multi-trip, cable-free USB logger generating a PDF report with tracking events; 17,280-sample memory, replaceable battery (120-day life at -80°C), IP67 rated, user-defined alarm levels/sample rate/time zone, complies with EN12830.

[Dry Ice Logger](#)[↓ Brochure PDF](#)

FULL PRODUCT RANGE

● **Fourtec 2026 Catalog**

Complete data logging & monitoring product catalog — specifications, models & accessories.

[↓ Download 2026 Catalog](#)[ALL PRODUCTS →](#)[SOLUTIONS](#)[FOURTEC.COM ↗](#)

FOURTEC

30+ years of data-logging innovation. From warehouse to workstation — ensuring the integrity of every sample, reagent, and diagnostic product.

INDUSTRY SOLUTIONS

- **Food Manufacturing**

Protecting integrity across cultivation, storage, processing & distribution.

- **Universities & Research Centers**

Reliable monitoring supporting research protocols & data integrity.

- **Warehouse & Museums**

Precision T&H control protecting stock, artifacts & collections.

- **Catering & Food Services**

Safe T&H tracking through food prep, storage & delivery.

- **Pharmaceutical Manufacturing**

Environmental data & alarms ensuring drug stability & compliance.

- **Industrial Applications**

Process monitoring for aviation, automotive & electronics manufacturing.

- **Agriculture & Aquaculture**

Pre- & post-harvest monitoring to maximize yield, cut spoilage.

- **Pharmacies**

Safeguarding medication & vaccine storage conditions.

- **Wholesale & Retail**

Preserving food quality & safety across the supply chain.

- **Hospital Environments**

Critical T&H control for patient care & medical storage.

- **Laboratories**

Stable, controlled conditions for accurate, replicable results.

- **Export & Last-Mile Transport**

In-transit monitoring via MicroLite, PicoLite, BluLite & SingleRide.

PARAMETERS MONITORED

Temperature

Humidity (RH%)

Dry Ice / CO₂

WiFi / BT / Wireless

"Ensuring the integrity of your diagnostics from warehouse to workstation."

MEDIX BIOCHEMICA

IVD RAW MATERIALS · ANTIBODIES · MOLECULAR REAGENTS

• GCC AUTHORIZED DISTRIBUTOR

Exclusive GCC distributor for Medix Biochemica — Finland's leading independent IVD raw material supplier. Enabling regional diagnostic manufacturers to build next-generation immunoassay and molecular diagnostic platforms.

• **Antibodies**

Monoclonal & polyclonal antibodies powering immunoassay tests.

• **Antigens**

Native & recombinant antigens for assay development & QC.

• **Biospecimens**

Human fluids, swabs & specimens for research and testing.

• **Blockers & Stabilizers**

Minimize assay interference, preserve protein function.

• **Bulk Biologicals**

Ethically sourced biological fluids, tissues & swabs.

• **Enzymes**

Clinical chemistry enzymes for accurate assay reagents.

• **Immunoassay Kits**

ELISA, ELISpot & Fluorospot kits for research use.

• **Lipoproteins**

HDL, LDL & triglycerides for QC and calibration.

• **Molecular Reagents**

MedixMDx master mixes — End-Point, Real-Time, Isothermal, Lyophilized.

• **Processed Plasma & Serum**

Specialized base matrices for manufacturing operations.

• **Proteins**

Serum proteins, albumins & gamma globulins for clinical use.

• **Small Molecules**

Vitamins, hormones & drug molecules conjugated for assays.

CONTRACT SERVICES

- Contract Manufacturing
- Contract Development
- Contract Analytical

Medix Biochemica

Independent, ISO 13485-certified supplier of critical raw materials for the global IVD industry — proudly Finnish, truly global.

CLINICAL AREAS

[Cardiac](#)[Infectious Diseases](#)[Diabetes](#)[Hormones](#)[Immunology](#)[Inflammation](#)[Tumor Markers](#)[Neurology](#)[Kidney](#)[Serum Proteins](#)[Clinical Chemistry](#)[Drugs of Abuse](#)[Biologicals](#)[Metabolism](#)[Serology](#)[Veterinary](#)

QUALITY CERTIFICATIONS

[↓ ISO 13485:2016 – Medix Biochemica](#)[↓ ISO 13485:2016 – Medix Biochemica USA](#)[↓ ISO 13485:2016 – Bioresource Technology](#)[↓ ISO 9001:2015 – Diacclone](#)[↓ ISO 9001:2015 – Diacclone \(FR\)](#)[↓ ISO 13485 – CANDOR Bioscience](#)[↓ ISO 9001:2015 – CANDOR Bioscience](#)

PRODUCT CATALOGS

[↓ Portfolio Summary](#)[↓ Biospecimens & Bulk Biologicals](#)[↓ Cardiovascular Disease](#)[↓ Clinical Chemistry](#)[↓ Drugs of Abuse](#)[↓ Hormones](#)[↓ Infectious Diseases](#)[↓ Inflammation](#)[↓ MedixMDx Molecular Diagnostics](#)[↓ Immunology Research Products](#)[↓ Tumor Markers](#)[↓ Veterinary Markers](#)

Espoo, Finland

medixbiochemica.com ↗

BRAND GMBH + CO KG

LIQUID HANDLING · VOLUMETRIC INSTRUMENTS · LAB CONSUMABLES



UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for BRAND GMBH + CO KG — a German manufacturer renowned for precision liquid handling and laboratory equipment. *"BRAND. For lab. For life.®"*

• Liquid Handling

Transferpette® pro/S/electronic pipettes, HandyStep® touch repetitive dispensers, Dispensette® S bottle-top dispensers, Titrette® bottle-top burettes, accu-jet® S pipetting aid, PD-Tips.

• Life Science Consumables

PCR plates, microcentrifuge tubes, microplates, cuvettes, sample storage, sealing films.

• BVC BioChem-VacuuCenter

VACUUBRAND-powered vacuum pumping units (S1-S3) for aspiration, filtration & solvent evaporation in bio/chem labs.

• Pipetting Robots

Liquid Handling Station and robotic tips for automated medium-throughput workflows.

• Volumetric Instruments

Volumetric flasks, pipettes, cylinders, burettes — BLAUBRAND® Class A precision glassware.

• General Lab Products

Beakers, Erlenmeyer flasks, funnels, desiccators, stirring equipment, tubing.

• Product Carbon Footprint (PCF) — ISO 14067:2018 INDEPENDENTLY VERIFIED

BRAND's CO₂e transparency initiative makes the climate impact of products visible — externally validated by TÜV SÜD Industrie Service GmbH. The Transferpette® pro was among the first liquid handling products with a calculated carbon footprint, now followed by 100+ additional BRAND products.

• CERTIFICATIONS & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD



ISO 9001:2015 Certificate

Quality Management · LGA InterCert · Valid to Oct 2026



ISO 14001:2015 Certificate

Environmental Management · TÜV Rheinland



ISO 50001:2018 Certificate

Energy Management · TÜV Rheinland · Valid to Dec 2027



AEO Certificate

Authorized Economic Operator · Customs



DAkkS Accreditation

Calibration Laboratory Accreditation (DIN EN ISO/IEC 17025)

[Documents and Downloads ↗](#)

LifeScience Main Catalog

Complete BRAND Life Science product range — pipettes, dispensers, consumables & volumetric instruments

↓ DOWNLOAD PDF

PRODUCT GALLERY



Transferpette® Family



accu-jet® S



Titrette®

LIQUID HANDLING →

CONSUMABLES

VOLUMETRIC

BRAND.DE ↗

"BRAND. For lab. For life.®" — Simple, easy, and efficient liquid handling trusted by laboratories worldwide.

FLAGSHIP PRODUCTS

Transferpette® pro

PCF

Transferpette® S / electronic

Manual/Electronic

HandyStep® touch

Repetitive

Dispensette® S

Bottle-Top

Titrette®

Bottle Burette

accu-jet® S

Pipetting Aid

BLAUBRAND®

Class A Glass

BVC BioChem-VacuuCenter

S1-S3

Molecular Biology

PCR & Genomics

Cell Culture

Analytical Chemistry

QA/QC Labs

Wertheim, Germany

brand.de ↗

"Simple, easy, and efficient — that's how lab work should be."

LONZA BIOSCIENCE

CULTURE MEDIA · TRANSFECTION · PRIMARY CELLS · CELL & GENE THERAPY

- GCC & MIDDLE EAST DISTRIBUTOR

Authorized distributor for Lonza Bioscience across the GCC and wider Middle East. Over 70 years of cell culture expertise — from research-grade BulletKit™ systems to GMP-certified cell & gene therapy solutions used in 130+ global clinical trials.

CULTURE MEDIA & REAGENTS

• Primary Cell BulletKit™ Systems

RUO

Optimized culture systems pairing basal media with SingleQuots™ supplements for endothelial (EGM™-2), fibroblast (FGM™-3), smooth muscle (SmGM™-2), and airway epithelial (BEGM™) primary cells.

EGM™-2

BEGM™

FGM™-3

SmGM™-2

SingleQuots™

[➤ View Primary & Stem Cell Products](#)[↓ Stem Cell Research Tools for Biologically Relevant Results \(PDF\)](#)

• X-VIVO™ · Hematopoietic & Immune

RUO

X-VIVO™ 15 is the gold standard serum-free medium for T-cell, NK-cell, and dendritic cell expansion — widely cited in CAR-T and immunotherapy clinical trial literature.

X-VIVO™ 15

T-Cell

NK Cells

Dendritic Cells

• TheraPEAK® · Cell & Gene Therapy

GMP

RUO

Used in FDA-approved therapies and 130+ global clinical trials. AmpliCell® Cytokines for immune cell activation, 293-GT® Medium for high-yield AAV viral vector production.

TheraPEAK®

AmpliCell®

293-GT® AAV

CAR-T

[↓ Download TheraPEAK® 293-GT® Media System \(PDF\)](#)

⚙️ PowerCHO® / ProCHO® Bioprocessing

GMP

RUO

High-density CHO, Hybridoma, NS0, and insect cell production media. Available in research to 10,000L GMP-grade volumes.

PowerCHO®

ProCHO®

CHO DG44/K1

10,000L GMP

[↓ Download PowerCHO® / ProCHO® Bioprocessing \(PDF\)](#)

INFOGRAPHICS & RESOURCES



Mesenchymal Stem Cells Infographic

From tissue regeneration to immunomodulation — MSC biology, isolation & characterization.



Clonetics™ & Poietics™ Diseased Cells Poster

In vivo relevance, in vitro results — disease-state primary cells across 6 tissue types.

[↓ Download Poster \(PDF\)](#)

TOXICOLOGY STUDIES IN DRUG DEVELOPMENT

• ADME-Tox Portfolio

RUO

A substantial share of drug-candidate attrition stems from toxicities not recognized until late in clinical trials, driving up development costs. Understanding ADME-Tox (absorption, distribution, metabolism, excretion & toxicity) is central to early discovery — our portfolio spans hepatotoxicity, nephrotoxicity, respiratory, dermal & neurotoxicity models built on primary human cells and predictive in vitro assays.

Hepatotoxicity

Nephrotoxicity

Respiratory

Neurotoxicity

↓ [View ADME-Tox Portfolio \(PDF\)](#)

TRANSFECTION & ELECTROPORATION

⚡ 4D-Nucleofector® Platform

GMP

RUO



Gold standard for hard-to-transfect primary cells. Modular system: X Unit (suspension), Y Unit (adherent 24-well), LV Unit (up to 1×10^9 cells), 96-well Unit (CRISPR screens). 900+ cell-type protocols.

X/Y/LV/96-well Units

P1-P5 Kits

CAR-T Mfg

CRISPR Delivery

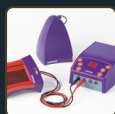
↓ [Download Nucleofector® Technology Portfolio \(PDF\)](#)

↓ [Download 4D-Nucleofector® LV Unit PRO Datasheet \(PDF\)](#)

ELECTROPHORESIS

• FlashGel™ & Agarose Portfolio

RUO



FlashGel™ delivers results in 5 minutes with built-in blue light — no EtBr needed. SeaKem® LE (world's most trusted routine agarose), NuSieve™, MetaPhor™ ultra-high resolution, PAGER™ protein gels.

FlashGel™

SeaKem® LE

NuSieve™

MetaPhor™

PAGER™

↓ [Download FlashGel® Loading Buffers & Markers \(PDF\)](#)

↓ [Choose the Lonza Agarose That's Right for You \(PDF\)](#)

CELL ANALYSIS & QC

• MycoAlert™ · ToxiLight™

RUO

QC



MycoAlert™ bioluminescent mycoplasma detection — critical for cell culture integrity. ToxiLight™ non-destructive cytotoxicity assessment via adenylate kinase release.

MycoAlert™

MycoZap™

ToxiLight™

Lucetta™ 2 Luminometer

↓ [Download MycoAlert® Mycoplasma Detection \(PDF\)](#)

↓ [Luminescent Cell-Based Assays \(PDF\)](#)

PRIMARY CELLS AND MEDIA

• Primary Cells vs. Cell Lines

RUO

Primary cells, isolated directly from tissue, retain donor-specific characteristics — age, medical history & disease state — with low genetic mutation and close resemblance to native tissue biology, unlike immortalized cell lines. Our portfolio spans 100+ human & animal cell types across 20+ donors, paired with BulletKit® media formulated with the growth factors and hormones needed to preserve tissue-specific phenotype and consistent growth.

100+ Cell Types

20+ Donors

BulletKit® Media

Ethically Sourced

↓ [Primary Cells and Media Guide \(PDF\)](#)

↓ [Primary Cells vs. Cell Lines Comparison \(PDF\)](#)

↓ [Primary Normal Human Cells and Media Infographic \(PDF\)](#)

● **Lonza Specialized Modalities — End-to-End CGT CDMO**
MAKING THE MEDICINES OF TOMORROW · GMP · DISCOVERY TO COMMERCIAL

Lonza is a globally leading CDMO for cell and gene therapies — uniquely positioned to support drug developers from concept through clinical development to commercial manufacturing. With 25+ years of GMP manufacturing experience, 250+ process development projects, and 6 Pre-Licensing Inspections (PLIs) passed, Lonza accelerates development timelines, optimizes manufacturing, and navigates regulatory hurdles.

⚙️ **Process Development**

Phase-appropriate development of robust, reproducible, commercially viable processes based on GMP design considerations. De-risking path to commercialization.

● **Bioassay Services**

Full analytical methods lifecycle — development, optimization, qualification, and validation. Pre-developed fast-qualified assays for IND filing and first-in-human trials.

● **Regulatory Support**

Expert regulatory team for accelerated pathways and special designations for CGT. Fast-track IND, BLA, and MAA support globally.

● **cGMP Manufacturing**

Standardized tech transfers, manufacturing, and pre-licensing inspection readiness. 20+ Phase III / commercial projects supported.

25+

YRS GMP MFG

250+

PROCESS DEV PROJECTS

160+

CGT CUSTOMERS

CAR-T

TCR-T

NK Cells

AAV Vectors

Lentiviral Vectors

iPSC

mRNA

Plasmid DNA

CELLBIO SERVICES — CUSTOM RESEARCH



Lonza CellBio Services
30+ YEARS CUSTOM CELL EXPERIENCE

● **Custom Cell Isolation**

30+ cell types from diverse tissues. Enzymatic, immunomagnetic & gradient methods.

Matched Donors

Fresh/Cryo

● **Cell Expansion**

Up to 2×10^{10} cells. 1,500 vials. 12L suspension. Master & working cell banks.

Batch CoA

Cell Banking

● **Custom Media**

Liquid 500mL–10,000L · Powder 1–7,000kg · SILAC · Custom packaging.

Phenol-red free

● **Pancreatic Islets**

Fresh human pancreatic islets, diseased cells (IPF, psoriasis), limited edition.

Guaranteed Viability

CELLBIO SERVICES →

CULTURE MEDIA

TRANSFECTION

PRIMARY CELLS

LONZA.COM ↗

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CONTACT & LOGISTICS

Reach out for technical, commercial, financial, or logistics enquiries.

TECHNICAL & COMMERCIAL

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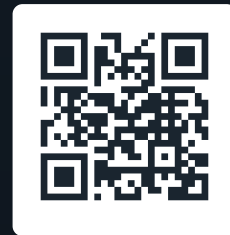
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BUSINESS DOCUMENTATION

End-Use / End-User Declaration

Required prior to supply of controlled scientific, diagnostic & life sciences products. Complete, sign & return to info@zymerabio.com.

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