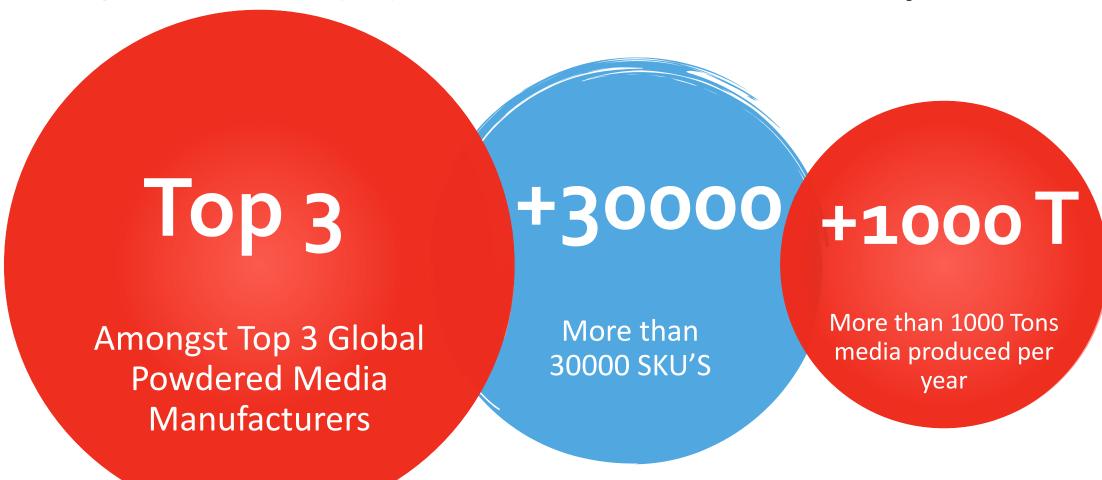




The HiMedia Brand

A Leading BioSciences Company in the Service of Humankind since 48 years







• 15 Manufacturing Locations in India

- Exporting to over 150 countries worldwide
- 335 + Global Channel Partners
- Offices & Warehouses in India, Germany and USA

State of Art Infrastructure

HiMedia Laboratories - New Headquarters - Thane C40







Upcoming cGMP Facility as per Industry Standard 5.0



- Animal free
- Antibiotic free
- QBD integrated process with the help of PAT
 - Integrated by IOT & Data Analytics



Our Business Verticals



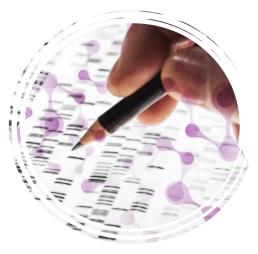
Microbiology



Cell Biology



Plant Tissue Culture



Molecular Biology



Hydroponics
Soilless Farming



Chemicals & Biochemicals



Consumables & Equipment

OUR CAPABILITIES







Advanced Technology

- Cryogenic milling
- Automated filling lines
- End to end traceability
- IOT
- In-House developed and controlled setups



Manufacturing Capacity

- Powder media: 5000kg/batch
- Liquid media: 1000L/batch
- 60 tons per day in 2023
- 100 tons per day in 2024



Customization Flexibility

- Customized formulations
- Customized packaging



Bulk Packing Capacity

- Powder media: In drums
- Liquid media: In bags

Our Strengths in Production



Our Quality Checkpoints



Raw Material Testing

Identity, purity and quality

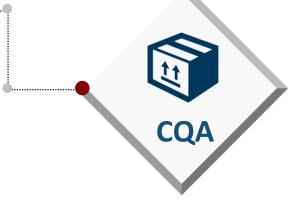
- HPLC Analysis
- FTIR Analysis
- *GC*
- Potentiometric Analysis
- Amino acid Analyzer
- UV spectrophotometer
- Polarimeter



In process Testing Controls

Critical Process Parameters (CPP)

- Particle size analysis
- Particle size distribution
- Principle Component Analysis
- Homogeneity Analysis

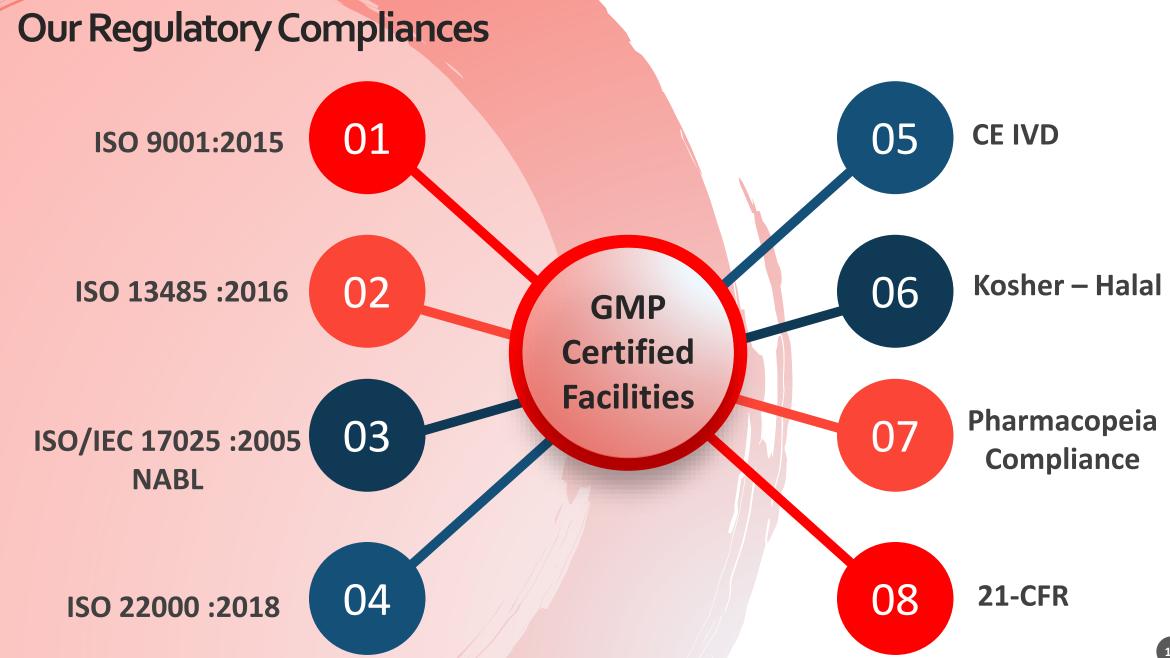


Finished Product Testing

Critical Quality Attributes (CQA)

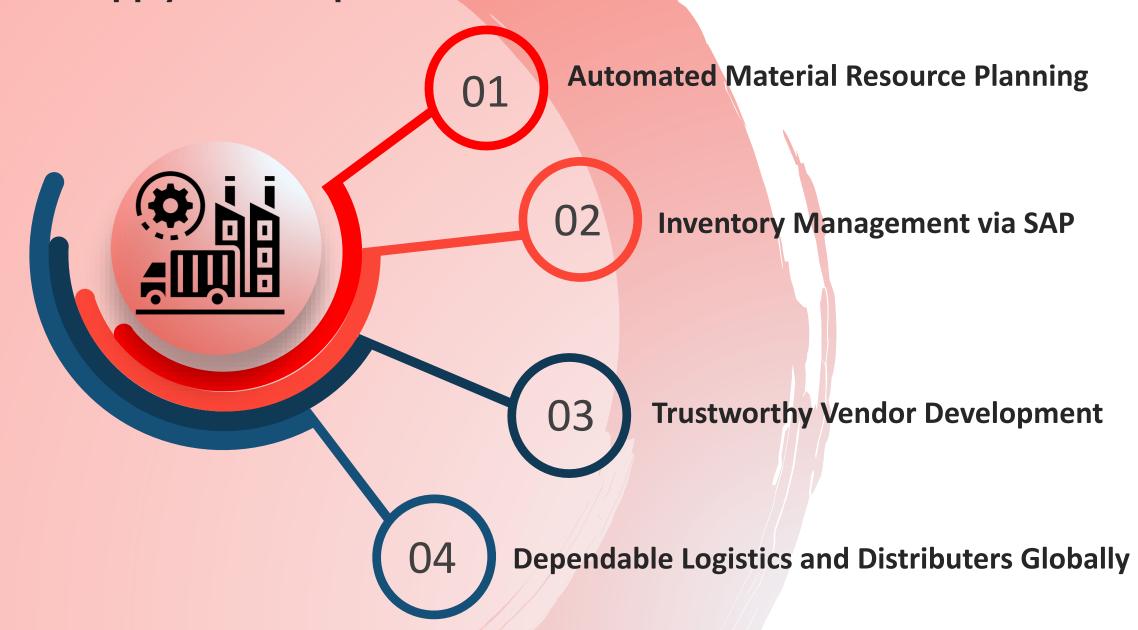
- Application specific testing
- Serial Subculture
- Endotoxin





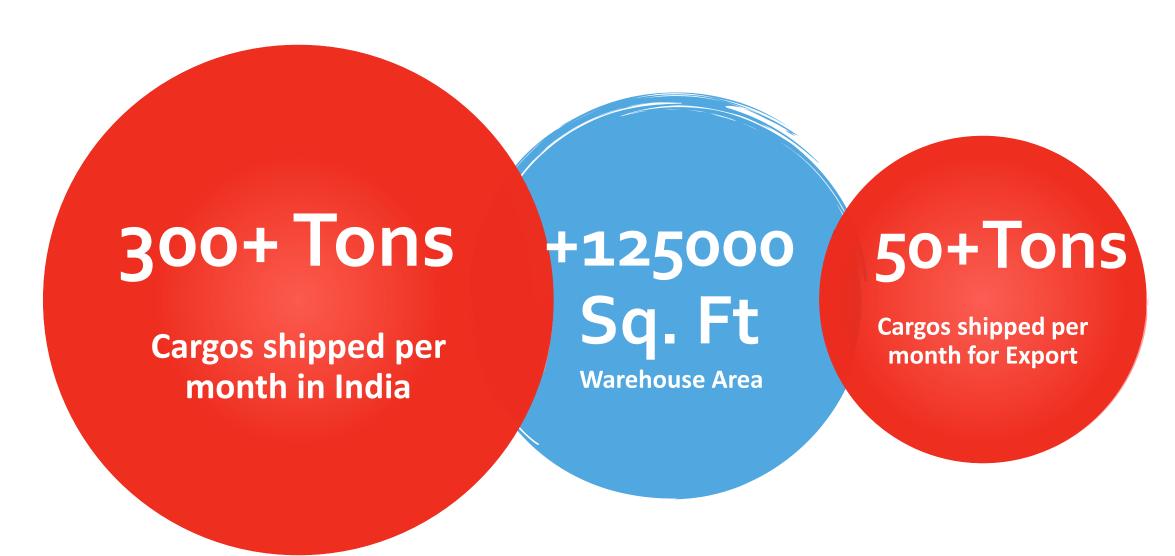


Our Supply Chain Expertise





Our Logistics Capabilities





CELL BIOLOGY DIVISION



Our Product Range





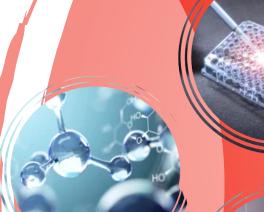
Media





BioProduction Platform

Cell Analysis & Detection Solutions



Cell Culture
Tested Chemicals



Stem Cells & Primary Cells

Consumables





Filtration

Solutions

Advanced Instruments

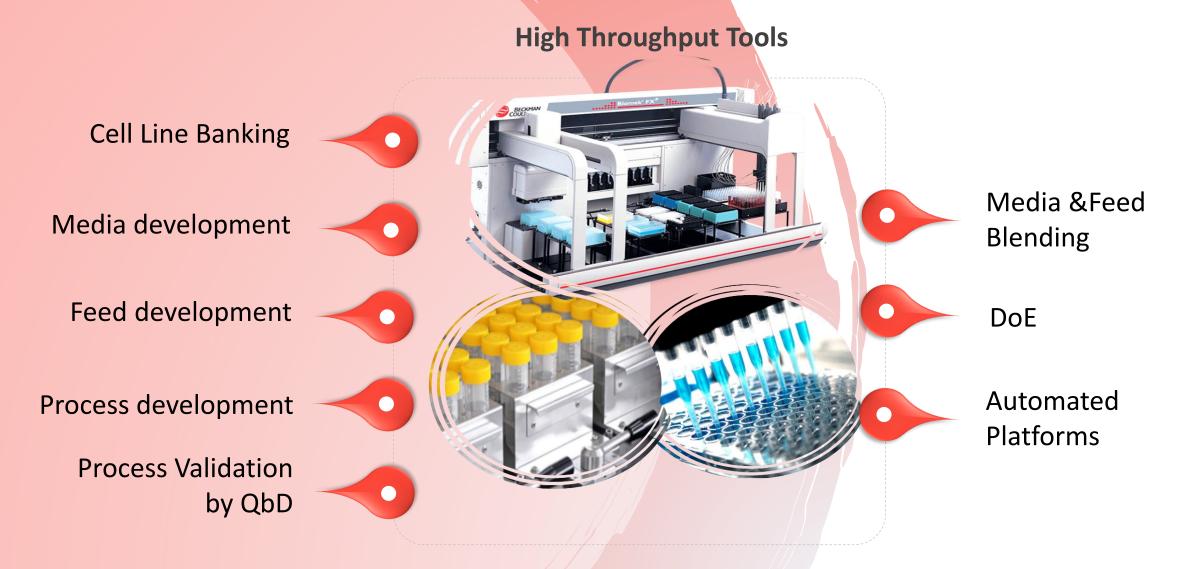
Our Services







R&D: A Systematic Approach to Media Development & Optimization





Biopharma Platform

Comprehensive range of clone-specific serum-free, protein free media and feed supplements and Bio-Production services



MEDIA

Serum & Animal Free Medium

CHOin1™ Serum Free CHO Medium

Universal Feed Supplement

CHOin1™ Feed Medium

Serum Free Supplements



Clone Specific Media & Feed

Development

- Assured Clone Security
- Systematic Development

Spent Media Analysis

Media Optimization



From Clone to Protein



Media Development & Optimization

Design of Experiments (DoE): A Multivariate Data Acquisition Tool



Media Mixture DoE

Optimization of Basal Medium



Two Level Factorial DoE

Testing the effects of multiple nutrient groups supplementing the basal medium



Comprehensive Analysis

Shortlisting of best performing medium and feed



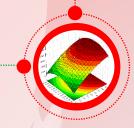
Process Optimization

Increased productivity



Central Composite DoE

Determine the optimal concentrations of functional nutrient groups identified in the previous step



5 Level Factorial Design

for Feed

Optimization of feed composition and feed strategy

Scale Up Optimization





Scale I: High throughput screening (10 – 15ml)

01

Accuracy by Automization Screening of >1000 media combinations in Bioreactor tubes



Scale II:
Growth Factor
Optimization (50ml)

02

Top Down Approach
Screening of >500 media

combinations in shake flasks to identify critical growth factors



Scale III:
Lab scale bioreactors
(0.4L- 1L)

03

Process Optimization

Process control at Lab scale bioreactors for productivity

Optimized Medium and Feed...

Assurance of high productivity



Scale IV:
Complete Process
Optimization (10L)

04

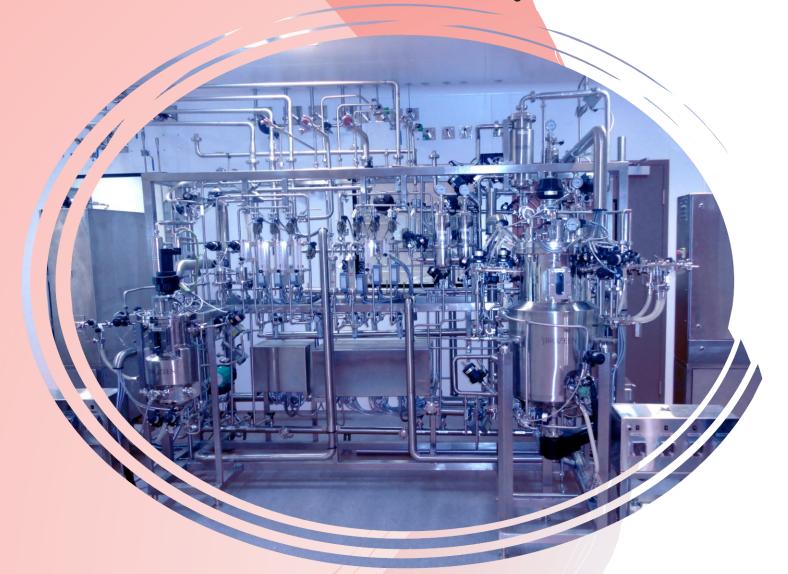
Process Validation

Suitability analysis for quantitative and qualitative productivity of the process for commercial application



Scale V:

Pilot Scale Plant in-situ sterilizable Bioreactor System (50L)





Viral Vaccine Platform

Accelerate Your Viral Vaccine Development with our complete range of vaccine specific media



MEDIA

We offer wide range of Serum-free and animal component-free medium for Human Viral Vaccine & FMD Vaccine

Human Viral Vaccine

- CELLin1™
- HEKin1™

FMD Vaccine

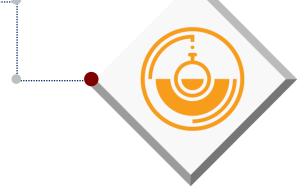
- BHKin1™
- GMEM



CHEMICALS

We offer Multicompendial chemicals that meets Pharmacopeia Testing Specifications.

- Chemicals meeting USP 41-NF 34, EP 9.0, JP 17 and BP 2016 testing specifications
- Complete Technical Dossier available



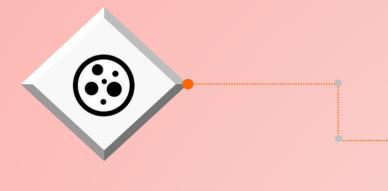
CONSUMABLES

Upstream vaccine development and manufacturing needs with our

- HiFactory
- Roller Bottles
- Erlenmeyer flasks



Stem Cells Platform





- HiFi™ Bone Marrow Mesenchymal Stem Cells (HBM-MSCs)
- HiFi™ Human Wharton's Jelly Mesenchymal Stem Cells (HWJ-MSC)
- HiFi™ Human Adipose Derived Mesenchymal Stem Cells (HAD-MSC)
- HiFi™ Human Dental Pulp Stem Cells (HDP-SC)

MEDIA

- Expansion Medium
- Differentiation Medium
- Freezing Media

KITS

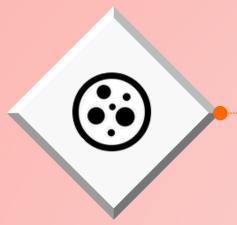
- Culture Kits
- Differentiation Kits
- Staining Kits

SERA & GROWTH FACTORS

- MSC Qualified Sera
- Cytokines and Growth Factors



Primary Cells Platform



CELLS

Comprehensive portfolio
of normal peripheral blood mononuclear
cells (PMBCs) Isolated from healthy
donors

- Normal Human PBMCs
- PBMCs, Single donor
- Purified Cell Subsets

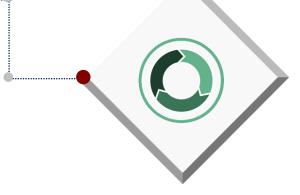
We deliver freshly isolated PBMC's in 24 hours



MEDIA

smarT™

T cell Expansion Medium,
Research grade A Serum-free, Xeno-free
medium for expansion of human T cells



PRIMARY CRYOPRESERVED HEPATOCYTES

Cryopreserved primary hepatocytes suspension and plateable certified for metabolism, induction and transporters



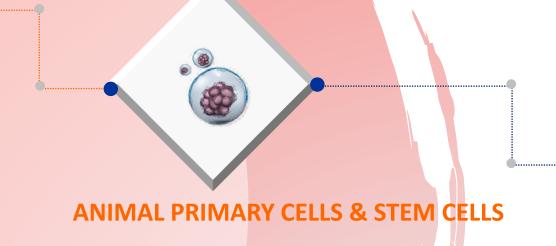
Cultivated Meat Platform

Environmentally sustainable and ethically sourced growth media, primary and stem cells, and food grade chemicals and reagents.



MEDIA

- Powdered as well as liquid formulations, for mammalian cells.
- Serum-free media for best consistency, traceability, and safety.
- Customized media as per your requirements in terms of media formulations, optimization & scale-up
- We also provide Media made from food grade chemicals



We offer Optimized Media & Bio
 Processing Service for Customer Specific
 Cell

FOOD-GRADE CHEMICALS AND REAGENTS

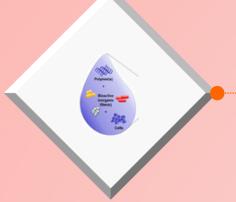
We have a comprehensive range of chemicals and food grade chemicals including amino acids, antibiotics, growth factors, biochemicals, cell dissociation and cryopreservation reagents used in cell culture.

We evaluate food safety of each ingredient used in medium w.r.t to food safety regulation given by USFDA



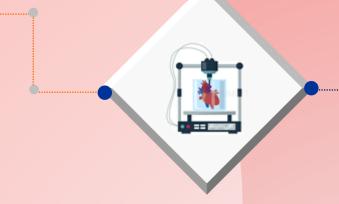
3D Cell Culture Services

HiMedia, as the leading supplier of 3D bioprinters and biomaterials, enables researchers to shape the future of health.



EDIBLE BIOINKS AND 3D BIO SCAFFOLDS

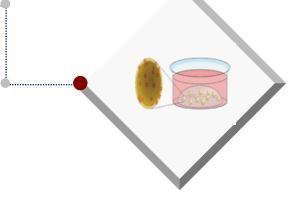
 Our experts at HiMedia are concentrated on developing the most efficient and affordable Bioinks and 3D Bio-scaffolds to facilitate innovation in bioengineering



3D BIO PRINTER

Affordable 3D Bioprinting, Customised for You

- HiMedia has collaborated with NBIL to bring you the extrusion-based bioprinters, specifically designed to address the requirements of the tissue engineering community.
- Print your scaffold designs in petri dishes and multi-well plates, or even customized lab-ona-chip devices



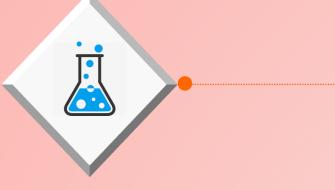
ORGANOID & SPHEROID MODELS

- Media Optimization
- 3D Model development & characterization
- Drug testing services



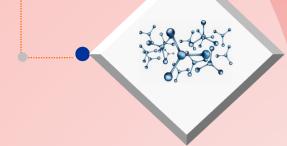
Cell Culture Tested Chemicals Platform

Comprehensive range of chemicals and specialty chemicals that are tested for cell culture applications



CELL CULTURE TESTED CHEMICALS

 Comprehensive range of chemicals and specialty chemicals that are tested for cell culture applications



MULTICOMPENDIAL CHEMICALS

- Chemicals meeting USP 41-NF 34, EP 9.0, JP 17 and BP 2016 testing specifications
- Complete Technical Dossier available
- Customized labelling & packing

VERSION [0.0] APRIL 7, 2017

PRODUCT DOSSIE

PRODUCT CODE: TC15
PRODUCT NAME: D-(+)-MANNOS

HIMEDIA LABORATORIES PVT. LTD 516, SWASTIK DISA BUSINESS PARK, VIA VADHANI INDI EST., LRS MARG, MUMBAI 400 086, INDI

HIMEDIA LABORATORIES PVT. LTD.		CONFIDENTIAL	
LIST O	OF DOCUMENTS		
Sr. No.	Description		
1	Product Dossier Summary		
2	Annexure I: Manufacturing Process Flow Chart		
3	Annexure II: Product Packing and Labeling Specification	ns	
4	Annexure III: Declarations		
5	Annexure IV: Other Certifications		
6	Annexure V: Method of Analysis (Chemical Tests)		
7	Annexure VI: Method of Analysis (Cell culture test)		
8	Specification Sheet		
9	Certificate of Analysis (COA)		
10	Material Safety Data Sheet (MSDS)		
11	Product Stability Data		
12	Source Change Intimation		

Complete Technical Dossier (CTD)



Cell Analysis & Detection Solutions

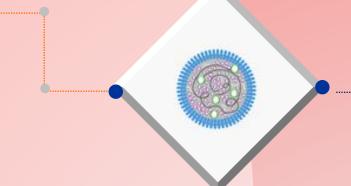
High throughput screening assays for versatile applications like drug discovery, live monitoring of cell activity, cell proliferation, toxicity testing & basic research.



CELL ANALYSIS KITS

Bioprocess involve wide range of cell viability/cytotoxicity kits to check the efficacy of biosimilars.

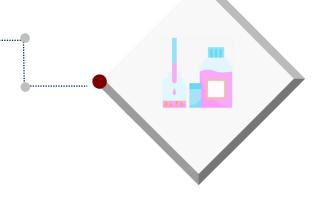
- Cell viability kit based on
 - Cellular ATP content
 - Metabolic activity
 - Nuclear DNA content
 - Detection of intracellular components
- Cell cytotoxicity kits based on
 - Enzyme release



MYCOPLASMA DETECTION AND ELIMINATION PLATFORM

Test your cultures before they test your patience

- Mycoplasma Detection Kits
- Mycoplasma Elimination Kits



STAINS AND INDICATOR DYES

Discover your cultures and cellular components with performance tested stains and dyes

- Live/Dead Cell Stains
- Stem Cell Differentiation Indicator Dyes
- Blood Cell Stains
- Stains for Histology
- pH Indicators



Filtration Solutions

HiMedia has come up with range and various solutions of membranes, syringe, and filtration assembly to cater exclusively for present industrial requirement of quality manufacturing standards, product performance and application support for laboratory scale to production scale filtration.

Pharmaceuticals-QC Microbiology Pharmaceuticals-QC Analytical Research Institutes/CRO's Proof & Beverage Industry





Consumables

Tissue Culture Flask

HiFactory™

Tissue Culture Roller Bottles

Tissue Culture Multiwell Plates

Tissue Culture Dishes

Bioreactor Tubes

PET/PETG Bottles

IVF Culture Dish

Confocal Dish

Tray Plate

Insect Breeding Dishes

Centrifuge Tubes

Erlenmeyer Flasks

Cell Culture Scaffold

THANKYOU

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www.himedialabs.com %

https://www.linkedin.com/showcase/cell-biology/