The HiMedia Brand
A Leading BioSciences Company in the Service of Humankind since **48 years**

- **Top 3**
  - Amongst Top 3 Global Powdered Media Manufacturers
- **+30000**
  - More than 30000 SKU’s
- **+1000 T**
  - More than 1000 Tons media produced per year
Global Presence

• 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
State of Art Infrastructure

Media Manufacturing Facility

R&D Facility

Protein Hydrolysate Manufacturing Plant
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

Critical Quality Attributes (CQA)

- Application specific testing
- Serial Subculture
- Endotoxin

Finished Product Testing
Our Regulatory Compliances

1. ISO 9001:2015
2. ISO 13485 :2016
3. ISO/IEC 17025 :2005 NABL
4. ISO 22000 :2018

GMP Certified Facilities

5. CE IVD
6. Kosher – Halal
7. Pharmacopeia Compliance
8. 21-CFR
Our Supply Chain Expertise

01 Automated Material Resource Planning
02 Inventory Management via SAP
03 Trustworthy Vendor Development
04 Dependable Logistics and Distributors Globally
Our Logistics Capabilities

- **300+ Tons**: Cargos shipped per month in India
- **+125000 Sq. Ft**: Warehouse Area
- **50+Tons**: Cargos shipped per month for Export
CELL BIOLOGY
DIVISION
Our Product Range

- Viral Vaccine Platform
- Cell Analysis & Detection Solutions
- Stem Cells & Primary Cells
- Cell Culture Tested Chemicals
- Filtration Solutions
- Consumables
- Advanced Instruments
- BioProduction Platform
- Media
Our Services

ATCC (In India)

Skill Development Modules

Custom Service Platform
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

BIO PRODUCTION SERVICES

- Clone Specific Media & Feed Development
  - Assured Clone Security
  - Systematic Development

- Spent Media Analysis

- Media Optimization

PROCESS DEVELOPMENT

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

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

Comprehensive Analysis
Shortlisting of best performing medium and feed

5 Level Factorial Design for Feed
Optimization of feed composition and feed strategy

Process Optimization
Increased productivity
Scale Up Optimization

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

**Scale II:**
Growth Factor Optimization (50ml)

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

**Scale IV:**
Complete Process Optimization (10L)

- **01**
  - **Accuracy by Automization**
  - Screening of >1000 media combinations in Bioreactor tubes

- **02**
  - **Top Down Approach**
  - Screening of >500 media combinations in shake flasks to identify critical growth factors

- **03**
  - **Process Optimization**
  - Process control at Lab scale bioreactors for productivity

- **04**
  - **Process Validation**
  - Suitability analysis for quantitative and qualitative productivity of the process for commercial application

*Optimized Medium and Feed...*
*Assurance of high productivity*
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

**CELLS**
- 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
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.

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

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

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.
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
THANK YOU

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