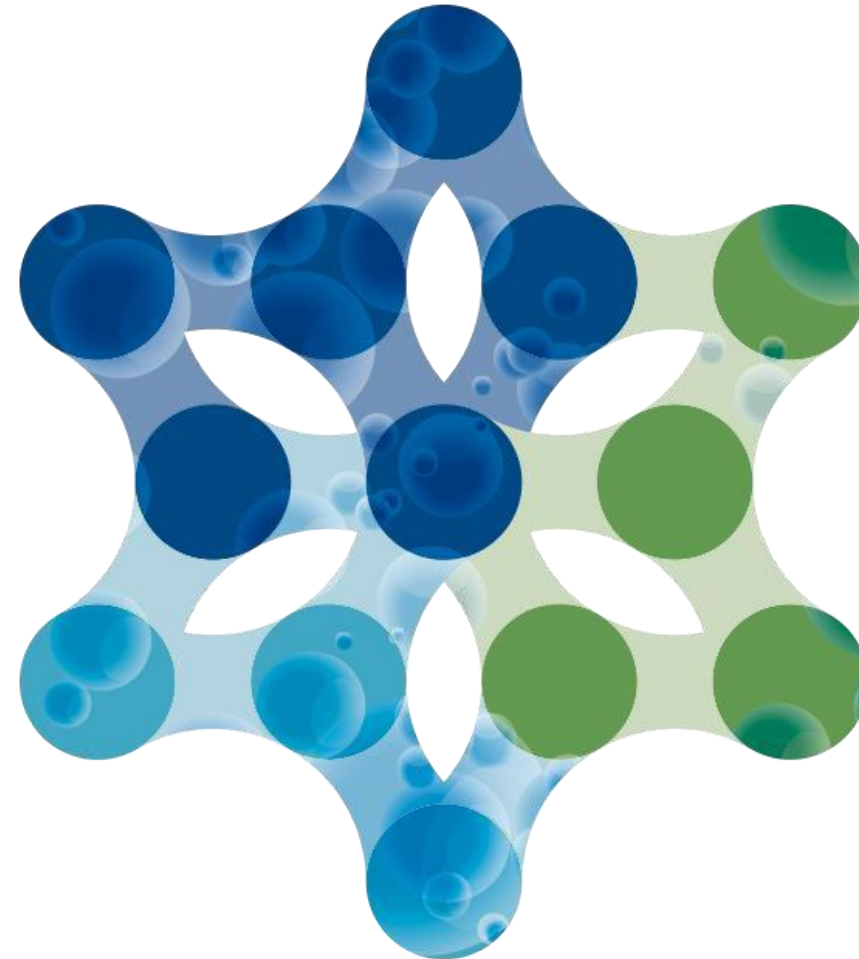


Biocon Limited

Capability Overview



The Multiplier Effect

MAXIMIZING VALUE



Our Vision

To enhance global healthcare through innovative and affordable biopharmaceuticals for patients, partners and healthcare systems across the globe.

Our Mission

Biocon is a technology-enabled, future-ready, global biopharmaceuticals leader driven by an unwavering purpose to enhance healthcare worldwide through high-quality, affordable therapies that can lower costs, increase access and improve treatment outcomes.



Biocon Limited – Overview

- **R&D team of 500+ scientists & postgraduates** with expertise in fermentation, peptide APIs and associated oral solids and sterile injectable formulations
- **7 state-of-the-art facilities** in Bengaluru, Hyderabad & Visakhapatnam, and one in the US, that manufacture high-quality products with reliability & efficiency
- Several **digital interventions** have been introduced, including MES, paperless preventive maintenance, quality management system (QMS), learning management system (LMS), documentation management system (DMS), R&D workbench, etc.
- These facilities routinely undergo **global accreditations & compliance inspections** by various regulatory agencies:



US FDA



European Medicines Agency



ANVISA (Brazil)



TGA (Australia)



COFEPRIS
(Mexico)



MFDS
(South Korea)

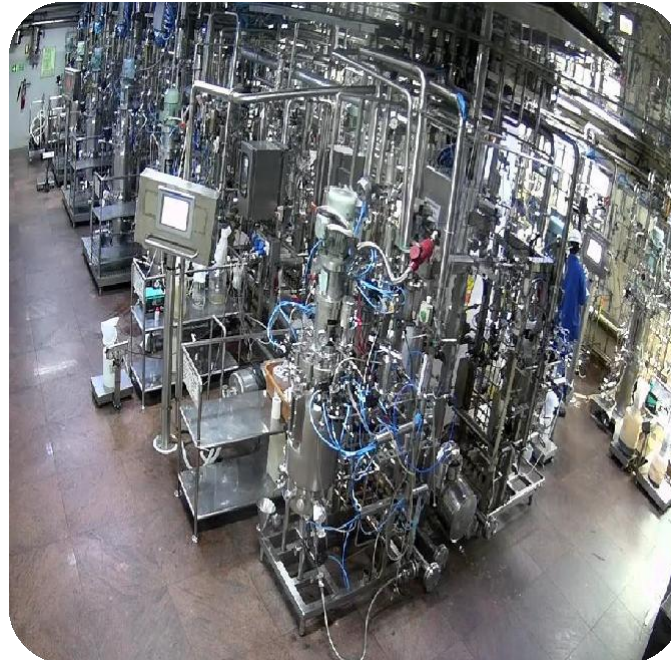
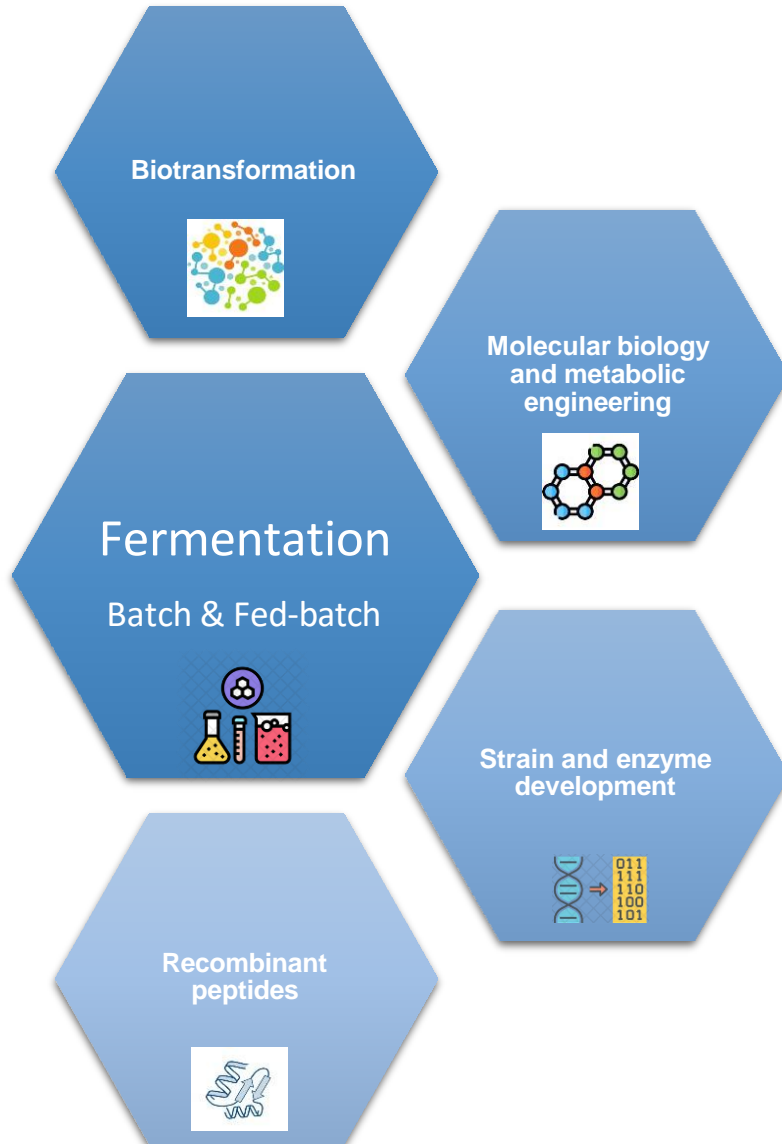


Health
Canada
Health Canada



Minzdrav
(Russia)

R&D capabilities – Fermentation technology



Lab scale fermenters

2 L TO 20 L Capacity

Glass fermenters,
incubator shakers,
96-well plate, High-
throughput screening

Pilot Lab Fermenters

50 L TO 500 L fermenters
with SCADA* operations

Cleaning in place
(CIP) and Steaming
in place (SIP)

R&D capabilities – Peptides technology

Synthetic Peptides

- Automated solid phase peptide synthesizers up to 10L
- Parallel synthesizer
- Microwave assisted synthesizer

Recombinant Peptides

- Expertise in different expression systems like *S. cerevisiae*, *Pichia pastoris*, *E. coli*
- 2-10L fermenters at lab scale
- 50-500L fermenters at pilot scale
- SCADA, CIP, SIP systems

Purification Infrastructure

- TFF systems (MF, UF, NF)
- Disk stack continuous centrifuge
- Pressure homogenizers
- Akta Pure, Akta Pilot
- BPG, Axichrom columns
- Prep HPLC systems (up to 110mm diameter column)
- Lyophilizers (up to 35L condenser capacity)



Manufacturing capabilities



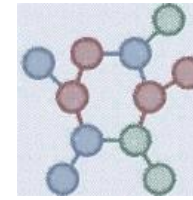
Fermentation

~700KL fermentation capacity

Multiple commercial scale fermenters

- **Immunosuppressant: 10KL, 30 KL, 100KL**
- **Other APIs: 10 KL and 100 KL**

Facilities include microbial cell banking system, seed fermenters and large-scale downstream extraction, and purification equipment



Peptides

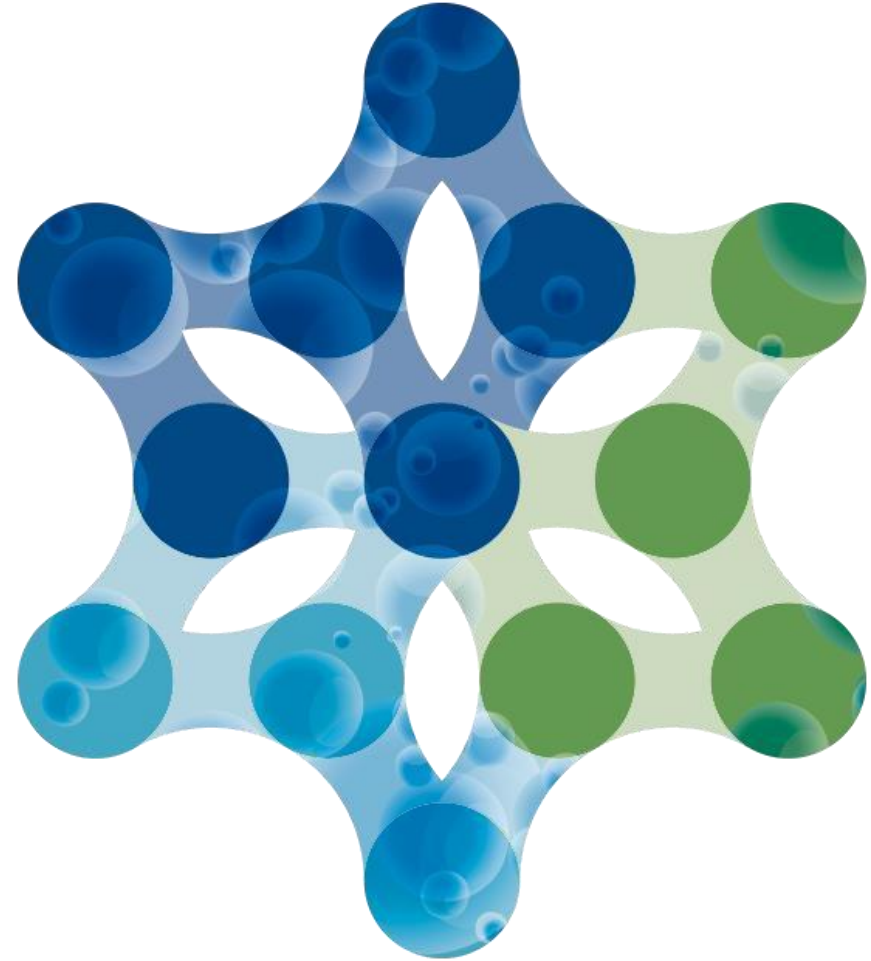
~3000L synthesizer capacity

Large volume and small volume products

- **Large volume: 500L synthesizers**
- **Small volume: 50L and 200L synthesizers**

Facilities include large-scale downstream purification equipment, leverages the fermentation set-up for recombinant peptides

Thank You



The Multiplier Effect
MAXIMIZING VALUE