

AJINOMOTO BIO-PHARMA SERVICES

Small molecules, oligo and
peptides manufacturing



IMPROVING THE HEALTH OF HUMANKIND BY

producing APIs and intermediates for more
than **one billion** lifesaving doses per year...

**SOME CALL IT MAGIC
WE CALL IT SCIENCE**

Your innovative, trusted
and reliable CDMO Partner



BIO • PHARMA
S E R V I C E S

AJINOMOTO BIO-PHARMA SERVICES

Small molecules, oligo and
peptides manufacturing

About

Ajinomoto Bio-Pharma Services is a fully integrated contract development and manufacturing organization, with sites in Belgium, India, Japan and the United States.

We provide comprehensive process development services to scale processes from grams to tonnes, and have multiple decades experience in cGMP manufacturing of APIs and intermediates.

Ajinomoto Bio-Pharma Services offers a broad range of innovative platforms and capabilities to rapidly scale from clinical and pilot programs to commercial quantities, including: high potency APIs (HPAPI), continuous flow, biocatalysis, oligonucleotide & peptide manufacturing.

Ajinomoto Bio-Pharma Services is dedicated to providing a high level of quality and service to meet our clients' needs.



THE HEALTH NKIND BY

intermediates for more
ving doses per year...

IT MAGIC
SCIENCE

EU - Belgium

- Small molecule cGMP manufacturing
- Oligo & peptide manufacturing, including AJIPHASE®
- R&D center for small molecules
- Outstanding expertise in:
 - Hazardous chemistry
 - High potent APIs (OEB4/5)
 - Continuous flow
 - Green chemistry

Japan

- Oligonucleotide & Peptide manufacturing
- AJIPHASE® technology
- R&D center for new technologies

United States

- AAV Development & cGMP Manufacturing
- Drug product fill-finish services

India

- Small molecule cGMP manufacturing
- Highly potent APIs (OEB4)



IMPROVING OF HUMANA

producing APIs and in
than **one billion** lifesasa

SOME CALL
WE CALL IT

Proven track record

- 50 years high potent APIs:
 - of which 15 years biocatalysis
 - and 10 years continuous flow
- Diversified and trusted global customer base

Customer focussed

- Aji Bio-Pharma Services is focused on meeting the needs of our customers and their products.
- Beside commercial & late stage, also early phase development capabilities.

From RFP through product shipping and all the milestones in between, our team works to balance the needs and expectations of all stakeholders, while focusing on the end goal: **high quality, sustainable manufactured products delivered on time.**

Supply Chain Security

- Risk based supplier selection & qualification
- Supplier performance monitoring
- Continuous risk & compliance management
- Integrated ESG strategy



DEVELOPMENT, SCALE-UP AND MANUFACTURING

From lab to multi-ton commercial scale

•
~920m³ reactor capacity

•
Deep expertise in PAT

•
QbD employed

•
Effective continuous improvement programs



HIGH CONTAINMENT UNITS

Handling High Potent APIs down to 0.1 µg/m³/8hr

•
OEB/OEL determination by in-house toxicologist

•
Performant cleaning verification and change-over procedures

•
OEB4 in all sites; OEB5 in Wetteren (BE)

•
Micronization



GREEN CHEMISTRY

Successful green-route development

•
Biocatalysis

•
Selective chemistries

•
Water-based chemistry

•
Solvent recovery & biosolvents

•
Renewable sources

•
Precious group metals recovery



CONTINUOUS FLOW

Continuous flow manufacturing of liquids, slurries, and gas-liquids

•
In-house technology for:

•
photo-chemistry

•
high pressure, high temperature reactions (slurry compatible)

•
slow and heterogeneous reactions



Dedication to Sustainability

- Transparent and collaborative to meet your climate objectives
- Product carbon footprint reduction programs based on own Ecopass tool (ISO14067)
- Powered by 100% green electricity
- Electrification program in line with SBTi
- ISO14001 certified

Dedication to Quality

- Robust QC and quality systems
- cGMP compliant
- US FDA, EU, Japan, Brasil, Russia & South Korea approved

Dedication to Safety

- Own process safety assessment labs
- In-house toxicologist
- ISO45001 certified