

Generic Peptide APIs

Peptides for Toxicology & Clinical Trials

As part of our market-leading expertise in drug substances, Piramal Pharma Solutions offers multigram to kilogram GMP peptides for clinical trials and a deep portfolio of generic peptide APIs. Our GMP manufacturing capabilities include 4,500 liters of reactor volume, while our non-GMP R&D facility features more than twenty scientists with vast experience in peptide chemistry. It's another example of how we are continually expanding the ways in which we help reduce the burden of disease on patients.

R&D Capabilities

- Non-GMP facility in Thane, Mumbai, India
- Reaction facility from milligram to multigram
- 5 independent synthetic lines
- 2 downstream process lines with axial compression columns for chromatography
- 2 dedicated freeze dryers for development
- Reverse osmosis facility
- Team of 24 scientists led by 2 PhDs with vast experience in peptide chemistry

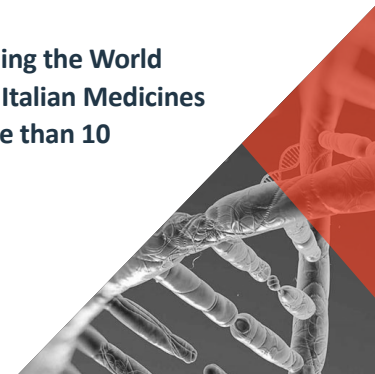


Manufacturing Capabilities

- GMP facility in Turbhe, Navi Mumbai, India
- 4,500 liters total reactor volume
- 200 liters reaction vessels for solid phase synthesis
- Up to 2000 liters tanks for synthetic modifications and downstream processing
- 14 individual production lines capable of operating simultaneously
- 11 downstream processing lines (HPLC Purification, Reverse Osmosis, Filtration)
- Successfully scaled-up over 12 peptide APIs for commercial supplies
- A site expansion that will triple capacity of the manufacturing plant is underway



Our peptide facilities have been successfully inspected by numerous regulatory agencies including the World Health Organization, US FDA, European Directorate for the Quality of Medicines & HealthCare, Italian Medicines Agency, ECC-Germany, and the Korean Ministry of Food and Drug Safety. The site averages more than 10 customer audits every year.

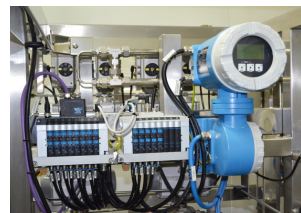


Product List:

We also offer a product portfolio covering almost 90% of all generic peptide APIs (commercialized and under development).

Commercial Products	Products Under Development
Buserelin acetate	Abaloparatide acetate
Calcitonin Salmon acetate	Atosiban acetate
Carbetocin acetate	Corticotropin acetate
Cetrorelix acetate	Glatiramer acetate
Desmopressin acetate	Glucagon acetate
Gonadorelin acetate	Lanreotide acetate
Gonadorelin diacetate*	Linaclotide acetate
Goserelin acetate	Liraglutide acetate
Leuprolide acetate	Plecanatide acetate
Octreotide acetate	Semaglutide acetate
Oxytocin acetate	Teduglutide acetate
Terlipressin acetate	Triptorelin acetate
Tetracosactide acetate	
Vasopressin acetate	

*Veterinary Drug



OUR GLOBAL PRESENCE



*Yapan Bio: Associate Company of Piramal Pharma Ltd.

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