Our Peptide Synthesis Services

Synthetic Peptides are finding increasing use as therapeutics, diagnostics, for antibody production, and as tools for understanding biological processes. Neuland’s peptide synthesis services include production of peptides from milligrams to multi-kilogram scale by standard sequential chemical peptide syntheses and segment condensation strategies.

Most peptides between five and sixty amino acids are produced by standard solid phase peptide synthesis (SPPS) procedures. Multiple kilos of shorter length (up to 9 amino acids) are produced by solution phase methods. For longer peptides, containing up to 120 amino acids, segment condensation and ligation techniques are employed.

Neuland has expertise in both solution phase and solid phase synthesis methodologies. We have recently produced 32 kg of a decapeptide for a US based company by solution phase segment condensation of two pentapeptide key starting materials. The N-terminal KSM utilized a pseudoproline at its C terminus. (Further details of this project can be found in ‘Projects Realised’.)

Neuland has also developed a preparative HPLC technique which is 10 to 20x better in throughput compared to the standard preparative HPLC technique. This makes purification less laborious and economical due to increased output, lower purification related cost.

These aforementioned abilities enable Neuland to offer the highest quality peptide products at competitive prices. Please put us to work for you.

Synthesis of Peptide APIs, NCEs & Other Services
- cGMP manufacture of peptide APIs, NCEs, and impurities
- Route Scouting, Process development; optimization & validation; and impurity profiling
- Large scale manufacture of complex amino acids and Fmoc-building blocks such as Pseudoprolines, Isoacetyl Peptides, Dmb-derivatives, N-Methyl amino acids, etc.

Drug Development Support
- Supply of material for clinical trials
- Scale up from lab to pilot to commercialisation

Analytical R&D
- Analytical method development and validation
- Impurity profiling and validation
- Stability studies
- Supply of analytical reference standards

Regulatory Support
- Filing DMF with the appropriate regulatory agencies

For further details visit: www.neulandlabs.com
Neuland’s Peptide World
From building blocks to commercial production of peptide APIs

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Core Expertise
- Solution Phase Synthesis
- Solid Phase Synthesis
- Hybrid Technology for Complex Peptides

Demonstrated expertise in the manufacture of peptide APIs (5 – 30 AAs) using solution phase and hybrid technologies.
Leuprolide, Octreotide and Eptifibatide (solution synthesis products). Evaluation samples available on request.
Your partner for development and cGMP manufacture of Fmoc building blocks (Isoacyl Dipeptides, N-Methyl amino acids, Azido and other high value amino acids.)

List of Building Blocks
- Isoacyl Dipeptides
- Dmb Derivatives
- Hmb Derivatives
- Lysine Derivatives
- N-Methyl Amino acids
Other Products
- 30- Pseudoprolines