

Certificate of Analysis (COA)

Product Name: Tirzepatide

Lot No.: 3132057

Sequence: Tyr-Arg-Ala-Asp-Ala-Glu-Leu-Gln-Ala-Arg-Lys-Leu-Leu-Asp-Val-Gln-Gln-Leu-Ser-Ala-Gly-Ala-Tyr-Gln-Lys-Lys-Glu-Phe-Val-Asp-Gln-Trp-Leu-Met-Asn-Thr

Modifications: C20 fatty diacid conjugation via linker at Lys residue; C-terminal amide

Storage Conditions: -20°C

Report Date: 05 March 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	4813.45 ± 1.0 Da	4813.62. Da
Purity (HPLC)	>98%	99.23%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Single Impurity	≤ 0.5%	0.2%
Total Impurities	≤ 2.0%	0.7%
Peptide Content	≥ 80.0%	88.5%
Assay	95.0–105.0%	99.1%
Solubility	Freely soluble in water	Conforms
Water content	≤ 8.0%	4.3%
Acetic Acid Content	≤ 5000 ppm	1400 ppm
TFA Content	≤ 50 ppm	12 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.

E. Coli, Salmonella spp. Staphylococcus aureus	Absent	N.D.
Total Aerobic Count	≤ 100 CFU/g	<10 CFU/g
Yeast & Molds Count	≤ 10 CFU/g	<10 CFU/g
Bacterial Endotoxins (LAL)	≤ 0.5 EU/mg	<0.05 EU/mg