

CERTIFICATE OF ANALYSIS

Product Name:	Tirzepatide		
Sequence	Tyr-{Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{Aib}-Leu-Asp-Lys-Ile-Ala-Gln- {diacid-C20-gamma-Glu-(AEEA)2-Lys}-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala-Gly-Gly- Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH ₂		
Batch No.	25080902	Formula	C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈
Salt Type	Na ⁺	Quantity	1674g
Manufacturing Date	August 17, 2025	Expiry Date TO	August 16, 2027
Analytical results			
Items	Specifications		Results
Appearance	White powder		Conforms
Solubility	Soluble in water ≥ 50mg/ml		Conforms
Related Substances (HPLC)	Maximum single impurity ≤ 0.5%		0.36%
	Total impurities ≤ 1.0%.		0.78%
Purity (HPLC)	≥ 99%		99.28%
Water Content (KF)	≤ 10%		6.10%
Acetic acid	≤ 0.5%		0.01%
Sodium ion	≤ 3.0%		1.40%
Trifluoroacetic acid	≤ 5000ppm		ND
Residual solvents	Methanol: ≤ 300ppm		ND
	Isopropanol: ≤ 500ppm		ND
	Acetonitrile: ≤ 410ppm		66ppm
	Methylene chloride: ≤ 600ppm		ND
	N,N-Dimethylformamide: ≤ 800ppm		ND
Assay	95.0% ~ 105.0%		99.60%
Peptide content	≥ 90%		91.80%
pH	6.0-9.0		7.3
Bacterial endotoxin	< 5EU/mg		Conforms
Mass Spectrum	4813.45+1		Conforms
Total aerobic microbial count	≤ 1000cfu/g		Conforms
Total yeast and mold count	≤ 100cfu/g		Conforms
Storage	In the air tight container, protected from light at temperature -20 °C.		
Conclusion	This product conforms to the standard.		