



Product Name	Tirzepatide	CAS #	2023788-19-2
Molecular Formula	C225H348N48O68	Molecular Weight	4813.8
Batch #	TH2305002	Date of Mfg	2023-05-21
Reference Standard	Enterprise Standard	Retest Date	2025-05-20
Storage	In an airtight container, protected from light, at a temp of 2C to 8C		

TEST	SPECIFICATION	RESULT
Appearance	White or almost white fluffy powder	Conform
Solubility	Soluble in water	Conform
Water Content (Karl Fischer)	≤ 8.0%	3.50%
Sodium ion	≤ 5.0%	1.20%
Trifluoroacetic Acid	≤ 0.5%	Not Detected
Peptide Purity (By HPLC)	≥ 98.0%	99.12%
Related Substance (By HPLC)	Total Impurities (%) ≤ 2.0%	0.28%
	Largest Single Impurity (%) ≤ 1.0%	0.12%
Bacterial Endotoxins	≤ 10EU/mg	Conform
Assay	≥ 90.0%	92.30%
Residual Solvents	Acetonitrile: NMT 410ppm	100ppm
	Dichloromethane: NMT 600ppm	Not Detected
	DMF: NMT 880ppm	Not Detected

Conclusion	This batch conforms with enterprise standards and qualified
Test Performed By	Michael P
Test Date	5/26/23