

Tirzepatide

PRODUCT	Tirzepatide	APPEARANCE	White loose mass
LOT / BATCH NO.	TZPT-M-2506001	MANUFACTURING DATE	2025-06-30
		RETEST DATE	2027-06-29
		STORAGE	Preserve in tight, light resistant containers, Store in freezer (-20±5oC)
		REPORT DATE	2025-08-06

#	TEST	SPECIFICATION	RESULT
1	Appearance	White or off-white powder or loose mass	White loose mass
2	Solubility	Soluble in water and methanol, almost insoluble or insoluble in acetonitrile.	Conform
3	MS	4813.5±2.0	4812.8
4	pH	6.0 8.0	6.47
5	Water Content	Not more Than 8.0%	1.3%
6	Color & Clarity of Solution	Should be clear and colorless	Conform
7	Sodium salt	Not more Than 3.0%	1.2%
8	Acetic acid	Not more Than 0.5%	0.04%
9	TFA Content	Not more Than 0.5%	N.D.
10	Purity	Not Less Than 99.0%	99.6%
11	Related Substance	Largest Single Impurity(%)≤0.3% Total Impurities(%)≤1.0%	0.09% 0.41%
12	Methanol	Not More Than 3000ppm	29.0ppm
13	Isopropanol	Not More Than 5000ppm	N.D.
14	Acetonitrile	Not More Than 410ppm	32.5ppm
15	Dichloromethane	Not More Than 600ppm	N.D.
16	Methyl tert-butyl ether	Not More Than 5000ppm	N.D.
17	N,N-dimethylformamide	Not More Than 880ppm	N.D.
18	Amino Acid Composition	Asp:1.6 2.4 Ser:4.0 6.0 Glu:3.2 4.8 Gly:3.2 4.8 Pro:3.2 4.8 Alb:1.6 2.4 Thr:1.6 2.4 Ala:3.2 4.8 Tyr:1.6 2.4 Val:0.8 1.2 Lys:1.6 2.4 Aaaa:1.6 2.4 Ile:2.4 3.6 Leu:1.6 2.4 Phe:1.6 2.4 Trp:0.4 1.2	1.8 4.4 4.1 4.2 3.5 2.2 1.7 3.3 2.2 1.1 2.2 1.9 3.3 2.2 2.2 0.5
19	Bacterial Endotoxin	Less Than 10EU/mg	10EU/mg
20	Assay	95.0% 105.0%	99.8%



AUTHENTICITY VERIFICATION
NST-TIRZ-TZPT-M-2506001-1F40C8
Scan or visit nstresearch.com/verify?c=NST-TIRZ-TZPT-M-2506001-1F40C8 to confirm this certificate against NST Research's issued-lot registry.



Batch analytical data reviewed & released under NST Research Quality Control

NST Research

Quality Control Department · Date: 2025-08-06

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