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Certification of Analysis

Peptide		Tirzepatide	Batch No.	CP260101
CAS No.		2023788-19-2	Item No.	TRZPD
MF.		C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈	Manufacturing Date	01/08/2026
MW.		4813.45	Retest Date	01/07/2028
Sequence		Y-Aib-E-G-T-F-T-S-D-Y-S-I-Aib-L-D-K-I-A-Q-K(C20diacid-γGlu-(AEEA) ₂ -A-F-V-Q-W-L-I-A-G-G-P-S-S-G-A-P-P-P-S-NH ₂		
TEST		SPECIFICATION		RESULT
1	Appearance	White or almost white powder or loose solid		Conforms
2	Related Substance	Total Impurities: ≤2.0% Maximum single impurity: ≤1.0%		0.47% 0.20%
3	Identification by MS	4813.45 ± 4		4812.55
4	Water Content (K.F)	≤5.0%		2.9%
5	Sodium Ion	≤3.0%		1.3%
6	Peptide Purity (By HPLC)	≥98.0%		99.53%
7	pH	6.0-8.0		7.80
8	Solubility	5mg/ml in water		Conforms
9	Bacterial Endotoxins	≤10EU/mg		Conforms
10	Assay	95.0% ~ 105.0%		99.60%
11	Residual solvent	Acetonitrile ≤410ppm Methylene chloride ≤600ppm N,N-Dimethylformamide ≤880ppm Isopropyl ether ≤5000ppm Methanol ≤3000ppm Triethylamine ≤320ppm Tert-butyl methyl ether ≤5000ppm		69 N.D N.D N.D N.D N.D N.D
12	Acid group Ions	Trifluoroacetate ion ≤1000ppm Phosphate ion ≤1000ppm Chloride ion ≤1000ppm Acetic acid ≤1000ppm		N.D N.D N.D N.D
13	Escherichia Coil	Not detected		Conforms
14	Pseudomonas Aeruginosa	Not detected		Conforms

15	Staphylococcus Aureus	Not detected	Conforms
16	Salmonella	Not detected	Conforms
17	Microbial limits	TAMC≤1000cfu/g TYMC≤100cfu/g	Conforms Conforms
18	High molecular protein	≤0.50%	N.D
19	Peptide content	≥80.0%	95.3%
Conclusion: This batch of product complies with enterprise standard. It is chemical reagent used only for research, not for human use. Keep in tight container, protected from light, store at -20℃.			

Tested By **Liu Jing** , Checked By **Li Tiantian** , Audited By **Ke Liu**

YoungShe Chem Quality Control Department Date: **2026-02-13**

成都云希化工有限公司质检部