

Certificate of Analysis

替尔泊肽检测报告

产品名称/Compound ID	Tirzepatide		
中文名/Chinese Name	替尔泊肽	批号/Batch No.	T20260501
CAS	2023788-19-2		
分子式/Formula	C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈	分子量/M.W.	4813
结构/Structure	Tyr-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-Aib-Leu-Asp-Lys-Pro-Gly-Gly-Ala-Ile-Leu-Trp-Gln-Val-Phe-Ala-Lys-Gln-Ala-Ile-Ser-Ser-Gly-Asn-Pro-Pro-Pro-Ser		

质量检测/Quality Control Test			
TESTS	SPECIFICATIONS		RESULTS
外观/Appearance	白色粉末/White powder		Conforms
纯度/Area% by HPLC	>98% purity		99.25%
水分/ Water Content	≤ 8.0 %		3.67%
钠离子/ Sodium Content	≤ 5.0 %		1.52%
含量/Peptide Content	≥85.0 %		90.41%
pH	6.0-9.0		7.4
比旋度/Specific Rotation	-23.5° ~ -33.5°		-26.2°
盐型/Salt Form	钠盐/Sodium salt		
储存/Prolonged Storage	Store at -20 °C for one year		
溶剂残留 Residual Solvent	二氯甲烷/DCM	≤600 ppm	未检出/N.D
	四氢呋喃/ THF	≤720 ppm	未检出/N.D
	N,N-二甲基甲酰胺DMF	≤880 ppm	未检出/N.D
	乙腈/ACN	≤ 410 ppm	101 ppm
微生物限度 Microbial Limits	需氧菌总数(TAMC) ≤100 cfu/g		<1 cfu/g
	霉菌和酵母菌总数(TYMC) ≤100 cfu/g		<1 cfu/g
细菌内毒素 Bacterial Endotoxins	<10 EU/mg		合格/ Conforms
杂质 Impurities	总杂Total impurities	≤ 2.0%	0.75%
	最大单杂Maximum Single impurity	≤ 0.5%	0.34%
结论/Result	本品质量检测符合标准规定，以上项目均合格 The above items meet the requirements		
制备/Prepared	By Junjie Lv	Date: May 11, 2026	
批准/Approved	By Jianchao Xu	Date: May 11, 2026	

