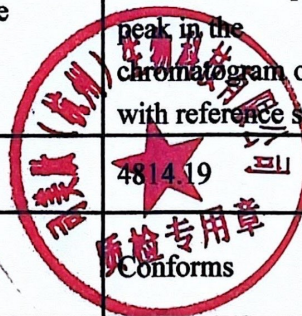




Certificate of Analysis

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Product Name		Tirzepatide	Catalog No.	C0163
Batch No.		SMP/40415	CAS No.	2023788-19-2
Sequence		Tyr-{Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{Aib}-Leu-Asp-Lys-Ile-Ala-Gln-{diacid-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		
Manufacturing Date		Apr,20,2024	Received Date	Apr,22,2024
Report Date		Apr,22,2024	Retest Date	Apr,19,2026
Test Reference		In-house specification/Protocol specification		
Test Items		Standard Specification		Test Results
Appearance		White to off white powder or loose lump		Conforms
Solubility		Soluble in water and 50% aqueous acetoritrile		Conforms
Identification	HPLC	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution		The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution
	MS	4813.45 ± 1.0		4814.19
Clarity and color of solution		Clear and colorless		
Water		≤10.0%		3.6%
pH		6.0~9.0		7.05
Acetic acid		≤0.1%		N.D
Trifluoacetate ion		≤0.1%		N.D
Sodium ion		≤3.0%		2.1%
Related Substances (HPLC)		Any individual impurity: ≤1.0% Total impurity: ≤2.0%		0.42% 1.44%
Purity		≥98%		98.56%





Certificate of Analysis

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Product Name	Tirzepatide	Catalog No.	C0163
Batch No.	SMP240415	CAS No.	2023788-19-2
Sequence	Tyr-{Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{Aib}-Leu-Asp-Lys-Ile-Ala-Gln-{diacid-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		
Manufacturing Date	Apr,20,2024	Received Date	Apr,22,2024
Report Date	Apr,22,2024	Retest Date	Apr,19,2026
Test Reference	In-house specification/Protocol specification		
Test Items	Standard Specification	Test Results	
Bacterial endotoxin	<10EU/mg	Conforms	
Residual solvents	Methanol: ≤0.3% Isopropanol: ≤0.5% Acetonitrile: ≤0.041% Methylene chloride: ≤0.06% N,N-Dimethylformamide: ≤0.088% Triethylamine: ≤0.032% Tert-butyl methyl ether: ≤0.5%	Methanol:0.007% Isopropanol:0.009% Acetonitrile: 0.010% Methylene chloride: N.D N,N-Dimethylformamide: N.D Triethylamine: N.D Tert-butyl methyl ether:0.002%	
Peptide Assay	≥80.0%	92.91%	
Packaging and storage	Store at a temperature of 2~8°C, protected from light.		
Conclusion	The test results comply with the requirements of in-house specification.		
Remark	It is only supplied as chemical product.		
Prepared by/Date: <i>Yuchen Ding</i> 2024.04.22	Reviewed by/Date: <i>Lu Wu</i> 2024.04.22	Approved by/Date: <i>Hai Fang Shi</i> 2024.04.22	

