

Certificate of Analysis

质量分析报告 (COA)

产品名称 Product Name	Sermaglutide CAS: 910463-68-2	批号 Batch No.	Z-peptide-23071501-002
盐类型 Salt Type	Na ⁺	生产日期 Manufacturing Date	2023.04.22
序列 Sequence	His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(AEEA-AEEA) γ-Glu-17-carboxyheptadecanoyl)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly-OH		

Test 检测项目	Specification 标准	Result 结果
外观 Appearance	白色或灰白色粉末 White or off-white powder	Conforms
溶解性 Solubility	Soluble in H ₂ O	Conforms
Amino acid analysis 氨基酸分析	His (0.9-1.1) Asp (0.9-1.1) Ala (2.7-3.3) Val (1.8-2.2) Glu (4.5-5.5) Leu (1.8-2.2) Gly (3.6-4.4) Lys (0.9-1.1) Thr (1.8-2.2) Phe (1.8-2.2) Arg (1.8-2.2) Ser (2.7-3.3) Ile (0.9-1.1) Tyr (0.9-1.1) Aib (0.8-1.2) AEEA(1.6-2.4) Trp (Det)	His 1.0 Asp 1.0 Ala 3.3 Val 2.0 Glu 5.3 Leu 2.1 Gly 4.1 Lys 1.0 Thr 2.0 Ile 1.1 Phe 2.0 Arg 2.2 Ser 2.9 Tyr 1.1 Aib 1.0 AEEA 2.0 Trp(Det)
纯度 Purity(HPLC)	≥98%	99.11%
分子量 Mass Spectrum	4113.58±1.0	4114.24
澄清度 Clarity and color of solution	无色澄清 Clear and colorless	Conforms
水分 Water	≤ 8.0%	4.0%
三氟乙酸含量 Trifluoroacetate ion	≤0.1%	N.D
酸碱度 pH	6.0-9.0	7.37
钠离子 Sodium ion	≤4.0%	1.7%
磷酸盐含量 Phosphate ion	<0.5%	N.D



氯离子含量 Chloride ion	<0.5%	N.D
有关物质 Related Substances (HPLC)	Any individual impurity: ≤1.0% Total impurity: ≤2.0%	0.41% 0.89%
残留溶剂 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: N.D Isopropanol: 0.012% Acetonitrile: 0.033% Methylene chloride: N.D N,N-Dimethylformamide: N.D Triethylamine: 0.020% Tert-butyl methyl ether: N.D
肽含量 Peptide Assay	≥90.0%	93.4%
细菌内毒素 Bacterial endotoxin	< 10EU/mg	Conforms
结论 Conclusion	检测结果与内控质量标准相符。 The test results comply with the requirements of in-house specification.	
备注 Remark	仅供科研使用。 For scientific research only	

***Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.**

起草/日期

复核/日期

批准/日期

Prepared by/Date

Reviewed by/Date

Approved by/Date

