



Hubei Yuanao Technology Co., Ltd
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Certificate of Analysis

product name: Semaglutide
CAS: 910463-68-2
His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-
Sequence: Glu-Gly-Gln-Ala-Ala-Lys(AEEA
A- AEEA
γ-Glu- 17-carboxyheptadecanoyl)Glu-Phe-Ile-Ala-Trp-Leu-
batch No.: P2301011001
Quantity 1G
inspect date: 2023.10.11

Items	Specification	Test result
Appearance	White or off-white powder	Conforms
Solubility	Soluble in H ₂ O	Conforms
Amino acid analysis	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 3.2 Val 2.0 Glu 5.2 Leu 2.0 Gly 4.2 Lys 1.0 Thr 2.0 Ile 1.1 Phe 1.9 Arg 2.1 Ser 2.8 Tyr 1.1 Aib 1.0 AEEA 2.0 Trp (Det)
Clarity and color of solution	Clear and colorless	Conforms
Mass Spectrum	4113.58± 1.0	4113.80
Purity	≥98%	99.50%
Water	≤ 8.0%	4.20%
Trifluoroacetate ion	≤0. 1%	N.D
pH	6.0~9.0	7.9
Sodium ion	≤4.0%	2.30%
Phosphate ion	<0.5%	N.D
Chloride ion	<0.5%	N.D
Related Substances (HPLC)	Any individual impurity: ≤ 1.0% Total impurity: ≤ 2.0%	0.03% 0.22%
Residual solvents	Methanol: ≤ 0.3% Isopropanol: ≤ 0.5% Acetonitrile: ≤ 0.041% Methylene chloride: ≤ 0.06% N,N-Dimethylformamide: ≤ 0.088% Tert-butyl methyl ether: ≤ 0.05%	Methanol: N. D Isopropanol: 0.001% Acetonitrile: 0.025% Methylene chloride: N. D N,N-Dimethylformamide: 0.005% Tert-butyl methyl ether: N. D
Peptide Assay	≥85%	93.40%
Bacterial endotoxin	<10EU/mg	Conforms
Packaging and storage	Store at a temperature of 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.	

inspector: LI JIAN

Reinspector: GAO SHEN

