

Certificate of Analysis

Lot number	XR24041501
Product	Semaglutide H-His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-TyrLeu-Glu-Gly-Gln-Ala-Ala-Lys(AEEAc-AEEAc- γ -Glu-17-carboxyheptadecanoyl)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-ArgGly-OH
Manufacturing date	Jul 06, 2024
Retest date	Jul 05, 2024
CAS number	910463-68-2
Molecular formula	C ₁₈₇ H ₂₉₁ N ₄₅ O ₅₉
Molecular mass	4113.58

Tests	Specifications	Results
Appearance	white or almost white loose powder	white powder
Identification (MS)	4113.58 \pm 1.0	conforms
Solubility	soluble in water	conforms
Water content (karl fischer)	\leq 8.0%	3.4%
Sodium ion	\leq 4.0%	2.1%
Acetate ion	\leq 0.1%	not detected
Trifluoroacetate ion	\leq 0.1%	not detected
Peptide purity (HPLC)	\geq 98.0%	99.79%
Assay (C₁₈₇H₂₉₁N₄₅O₅₉)	\geq 90.0%	94.51%
Total impurities	\leq 2.0%	0.21%
Largest single impurity	\leq 1.0%	0.10%
pH	7.0-9.0	7.9
Bacterial endotoxins (kinetic turbidimetry)	NMT 10 EU/mg	< 5 EU/mg
Total aerobic microbial count	NMT 100 CFU/g	conforms
Total yeasts and molds count	NMT 100 CFU/g	conforms

Analysis date: Jul 11, 2024

Certificate of AnalysisLot number **XR24041501**