

Certificate of analysis Semaglutide

CAS No	910463-68-2	Code	BIOJSEG001
Lot No	2023121301-1	Manufacture Date	Dec.20, 2023
Retest Date	Dec.19, 2025	Quantity	15G

Testing Items	Specifications	Results
Appearance	White or almost white powder	White powder
Sequence	H-His-Aib-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys(diacid-gamma-Glu-(AEEA)2)-Glu-Phe-Ile-Ala-Trp-Leu-Val-Arg-Gly-Arg-Gly-OH	Conform
Solubility	Soluble in water	Conform
Water content (Karl Fischer)	$\leq 8.0\%$	3.9%
Sodium Ion	$\leq 5.0\%$	2.1%
Amino acid composition	His: 0.9~1.1	1.0
	Asp: 0.9~1.1	0.9
	Ala: 2.7~3.3	3.0
	Val: 1.8~2.2	2.1
	Glu: 4.5~5.5	4.1
	Leu: 1.8~2.2	1.9
	Gly: 3.6~4.4	4.0
	Lys: 0.9~1.1	1.0
	Thr: 1.8~2.2	1.9
	Ile: 0.9~1.1	1.0
	Phe: 1.8~2.2	2.1
	Arg: 1.8~2.2	1.9
	Ser: 2.7~3.3	3.1
	Tyr: 0.9~1.1	1.0
Aib: N/A	N/A	
AEEA: N/A	N/A	
Peptide Purity (By HPLC)	$\geq 98.0\%$	99.2%
Related Substance (By HPLC)	Largest single impurity $\leq 1.0\%$ Total impurities $\leq 2.0\%$	0.3% 0.8%
Peptide content	$\geq 85.0\%$	93.9%

MS(ESI)	In accordance with the structure	Conform
Assay	95.0%~105.0%	99.9%
Molecular Weight	4113.58 ± 2	4112.26
Bacterial endotoxin	<10EU/mg	<10EU/mg
Microbiology	Aerobe ≤ 100cfu/g Mould & Yeast ≤ 100cfu/g	Conform Conform
Conclusion	This product conforms to In-house standard	

***Storage: Store at 0~8 °C, Protect from moisture and light.**