

Certificate of Analysis

Product	Semaglutide	CAS No.	910463-68-2
Product No.	LJSEM	Batch No.	LJSEM2026030601
Date of Mfg	2026/03/06	Retest Date	2028/03/05
Test Method	In-house	Quantity	10.58kg
Storage Conditions	Protected from light, sealed, store at $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$		

Test	Acceptance Criteria	Results
Appearance	White or off-white Powder	White Powder
Clarity and Color of Solution	The solution shall be clear and colorless.	Conforms
Solubility	Freely soluble in water	Conforms
Identification by HPLC	The retention time of the main peak of the test solution shall correspond to that of the main peak of the reference solution.	Conforms
Mass spectrum	Relative Molecular Mass $4113.6 \pm 1.0 \text{ Da}$	Conforms
pH	6.0~9.0	7.3
Water Content	$\leq 7.0\%$	2.1%
Acetic Acid	$\leq 0.5\%$	Not Detected
Trifluoroacetic acid	$\leq 0.1\%$	Not Detected
Sodium Ion	$\leq 5.0\%$	1.8%
Residual Solvents	MeOH $\leq 3000 \text{ ppm}$	Conforms
	DCM $\leq 600 \text{ ppm}$	Conforms
	Acetonitrile $\leq 410 \text{ ppm}$	Conforms

Related Substances	impurity 1 $\leq$ 0.5%	0.03%
	impurity 2 $\leq$ 0.5%	0.01%
	impurity 3 $\leq$ 0.5%	0.04%
	Maximum single impurity $\leq$ 2.0%	0.04%
Purity	$\geq$ 98.0%	99.7%
Bacterial Endotoxin	$\leq$ 3EU/mg	Conforms
Microbial Limit	Total Aerobic Microbial Count (TAMC) $\leq$ 100cfu/g	2.0cfu/g
	Total Yeasts and Molds Count (TYMC) $\leq$ 100cfu/g	<1cfu/g
	Escherichia coli: Not detectable in 1g	Not Detected
Assay	Containing Semaglutide (C ₁₈₇ H ₂₉₁ N ₄₅ O ₅₉) 95.0%~105.0%, on the anhydrous and sodium-free basis	99.5%
Peptide Content	$\geq$ 85.0%	95.1%
Conclusion	☒ Meet the requirements ☐ Do not meet the requirements	

Reporter/Date:

张洁

2026/3/10

Approver/Date:

刘辉

5/3/10

Storage: In an air tight container, protected from light.

Temperature :Short Term:2-8℃ ; Long Term: -20℃ ± 5℃

It is only supplied as chemical product.

It is only for R&D use.

