

Certificate of Analysis

Product	Retatrutide	CAS No.	2381089-83-2
Product No.	LJRET	Batch No.	LJRET2026062001
Date of Mfg	2026/06/20	Retest Date	2028/06/19
Test Method	In-house	Quantity	9.59kg
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 $4731.4 \pm 1.0 \text{ Da}$	Conforms
Amino Acid Ratio	Tyr 2.4~3.6	2.6
	Aib 1.8~2.2	2.1
	Glu 4.0~6.0	4.2
	Gly 3.2~4.8	3.6
	Thr 1.6~2.4	1.8
	Phe 1.6~2.4	1.8
	Ser 4.0~6.0	4.6
	Asp 1.6~2.4	1.8

[在此处键入]

	Ile 1.6~2.4	2.3
	α MeLeu: 0.9~1.1	1.0
	Leu 2.4~3.6	2.7
	Lys 1.6~2.4	1.8
	Ala 2.7~3.3	3.1
	Pro 3.2~4.8	3.5
	AEEA should be detected	Conforms
pH	6.0~9.0	7.4
Water Content	$\leq 8.0\%$	4.3%
Acetic Acid	$\leq 0.5\%$	ND
Trifluoroacetic acid	$\leq 0.5\%$	0.06%
Sodium Ion	$\leq 5.0\%$	1.2%
Residual Solvents	Methanol $\leq 0.3\%$	0.05%
	Dichloromethane $\leq 0.06\%$	ND
	DMF $\leq 0.088\%$	ND
	Acetonitrile $\leq 0.041\%$	0.02%
Related Substances	Max single impurity $\leq 0.5\%$	0.10%
	Total Impurities $\leq 2.0\%$	0.20%
Purity	$\geq 98.0\%$	99.4%
Bacterial Endotoxin	$< 10\text{EU/mg}$	Conforms
4Microbial Limit	Total Aerobic Microbial Count (TAMC) $\leq 100\text{cfu/g}$	Conforms
	Total Yeasts and Molds Count (TYMC) $\leq 100\text{cfu/g}$	Conforms
	Escherichia coli: Not detectable in 1g	Absent

[在此处键入]

[在此处键入]

Assay	It contains 95.0% to 105.0% of Tirzepatide (C ₂₂₁ H ₃₄₃ N ₄₆ O ₆₈), calculated on the anhydrous and sodium-ion-free basis.	99.1%
Peptide Content	≥85.0%	94.2%
Conclusion	☒ Meet the requirements ☐ Do not meet the requirements	
Remarks	It is only supplied as chemical product. It is only for R&D use.	

Reporter/Date: 张洁 2026/06/25

Approver/Date: 刘辉 2026/06/25



[在此处键入]