Certificate of Analysis

Product	**Retatrutide**	**CAS No.**	2381089-83-2
Product No.	LJRET	**Batch No.**	LJRET2026090101
Date of Mfg	2026/09/01	**Retest Date**	2028/08/31
Test Method	In-house	**Quantity**	1.38kg
Storage Conditions	Protected from light, sealed, store at -20℃±5℃		

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±1.0 Da	Conforms
Amino Acid Ratio	Tyr 2.7～3.3	3.1
	Aib 1.8～2.2	2.1
	Glu 4.5～5.5	4.9
	Gly 3.6～4.4	3.9
	Thr 1.8～2.2	2.0
	Phe 1.8～2.2	2.0
	Ser 4.5～5.5	5.0
	Asp 1.8～2.2	2.0

	Ile 1.8～2.2	2.0
	α MeLeu: 0.9～1.1	1.0
	Leu 2.7～3.3	3.0
	Lys 1.8～2.2	2.0
	Ala 2.7～3.3	3.1
	Pro 3.6～4.4	3.9
	AEEA should be detected	Conforms
pH	6.0～9.0	6.9
Water Content	≤8.0%	2.1%
Acetic Acid	≤0.5%	0.4%
Trifluoroacetic acid	≤0.5%	Not Detected
Sodium Ion	≤5.0%	1.6%
Residual Solvents	Methanol≤0.3%	0.005%
	Dichloromethane≤0.06%	Not Detected
	DMF≤0.088%	Not Detected
	Acetonitrile≤0.041%	0.005%
Related Substances	Max single impurity≤0.5%	0.07%
	Total Impurities≤2.0%	0.20%
Purity	≥98.0%	99.8%
Bacterial Endotoxin	≤5EU/mg	Conforms
Microbial Limit	Total Aerobic Microbial Count (TAMC) ≤100cfu/g	Conforms
	Total Yeasts and Molds Count (TYMC) ≤10cfu/g	Conforms

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	Escherichia coli: Not detectable in 1g	Absent
Assay	It contains 95.0% to 105.0% of Retatrutide, calculated on the anhydrous and sodium-ion-free basis.	99.7%
Peptide Content	≥85.0%	96.1%
Conclusion	☑Meet the requirements ☐Do not meet the r[illegible]	

Reporter/Date: 张洁 **2026/09/07** **Approver/Date:** [illegible] **2026/09/07**

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.

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