

Certificate of Analysis

R&D-RT-01

Product Name	Retatrutide	Batch Number	RT01-20250619
Manufacture Date	2025.06.19	Batch	10kg
Test Date	2025.08.25	Report Date	2025.09.01
Retest Date	2030.06.18	Storage	-20+5℃, protected from light, preserved in tight container
Test Standard	Retatrutide quality specification		
Test Item	Specification	Result	
[Character]			
Appearance	The substance is white or off-white powder or loose lump	White powder	
Solubility	Freely soluble in water, very slightly soluble in ethanol	Conform	
[Identification]			
Identification-LC	The retention time of the main peak of the test solution should be consistent with that of the reference solution	Conform	
Identification-MS	The monoisotopic molecular weight of the sample should be 4728.5±0.5Da	4728.5Da	
[Check]			
	The solution should be colorless	Colorless	
Solution color	6.0~8.5	6.3	
pH			
Water content	≤10.0%	1.9%	
Macromolecular impurities	≤0.3%	0.04%	
Residual solvent	Acetonitrile: ≤0.041%	0.0023%	
Related substance	Unknown Largest single unspecified impurity<0.50%	0.29%	
	Total impurities≤1.0%	0.77%	



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Test Standard	Retatrutide quality specification		
Test Item	Specification	Result	
Sodium ion	≤5.0%	1.1%	
Bacterial endotoxins	<10EU/mg	<5EU/mg	
Microbial limits	TAMC: ≤10 ² cfu/g TYMC: ≤5×10 ¹ cfu/g	<1x10 cfu/g <1x10 cfu/g	
[Assay]			
Peptide content	≥92.0%.	95.9%	
Assay	95.0%~105.0% (anhydrous and sodium ion-free substance).	98.9%	
No content below			
Conclusion	Tests were performed according to Retatrutide quality specification, the results conform with specification. 2025-09-01 *		
Remark	/		
Reporter	Dai Chen	Date	2025.09.01
Reviewer	Xiaoze Pei	Date	2025.09.01

