



Certificate of Analysis

Product Name	Retatrutide		
Batch Number	05626A03S	Batch	44865.14g
Manufacture Date	May.04,2026	Test Date	May.08,2026
Retest Date	May.03,2028	Report Date	May.27,2026
Test Standard	2-TSF-0098 Retatrutide (TAU) quality specification (USA) (Version 1.0)		
Test Item	Specification	Result	
[Characters]			
Appearance	White or off-white powder or loose lumps	White Powder	
Solubility	Freely soluble in water,practically insoluble or insoluble in acetonitrile	Conform	
Specific optical rotation	-45°~-60° (Calculated on an anhydrous,sodium-free basis)	-48°	
[Identification]			
UPLC	The RT of the main peak of sample in the assay test should be consistent with that of the reference.	Consist with the RT of reference	
MS	The monoisotopic weight of the sample should be 4728.5±0.5Da	4728.4Da	
[Tests]			
Solution clarity and color	The solution should be clear and colorless	Conform	
Amino acids ratio	Glu:4.5~5.5	5.2	
	Ser:4.0~5.5	4.5	
	Gly:3.6~4.4	3.9	
	Ala:2.7~3.3	3.0	
	Thr:1.6~2.2	1.9	
	Tyr:2.7~3.3	2.8	
	α-MeLeu:0.7~1.1	1.1	
	Ile:1.8~2.2	1.9	
	Leu:2.7~3.3	3.0	
	Pro:3.6~4.4	4.0	
	Asp:1.8~2.2	2.1	
	Aib:1.8~2.2	2.1	
	Phe:1.8~2.2	1.9	
	Lys:1.8~2.2	2.1	
	AEEA:0.7~1.1	0.9	



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Test Item	Specification	Result	
Water content	≤10.0%	2.4%	
Residual solvents	Acetonitrile≤410ppm	36ppm	
	Tert-Butyl methyl ether≤5000ppm	N.D.	
	Dichloromethane≤600ppm	N.D.	
	N,N-dimethylformamide≤880ppm	N.D.	
	Pyridine≤1000ppm	N.D.	
Macromolecular impurities	≤0.50%	0.04%	
pH	6.0-8.5	6.8	
Sodium ion	≤5.0%	1.1%	
Related substances	Any single impurity<0.50%	0.07%	
	Total impurities≤1.0%	0.35%	
Microbial limits	TAMC≤2×10 ² cfu/g	TAMC:<1×10 ² cfu/g	
	TYMC≤5×10 ¹ cfu/g	TYMC:<1×10 ¹ cfu/g	
Bacterial endotoxins	<10EU/mg	<5EU/mg	
[Assay]			
Assay	95.0%~105.0% (Calculated on an anhydrous, sodium-free basis)	98.7%	
No content below			
Conclusion	Tests were performed according to 2-TSF-0098 Retatrutide (TAU) quality specification (USA) (Version 1.0), the results conform with specification.		
Remark	The item of MS was tested by Hybio Pharmaceutical Co., Ltd.		
Analyst	Yiping Zhu	Reviewer	Heng Xu
Approval	Zhaoyin Li	Approval Date	May. 27, 2026