

# CERTIFICATE OF ANALYSIS

**APL-COA-RETA-003**

TESTING LABORATORY

**Analytical Testing Services**

Accredited · ISO/IEC 17025

Retatrutide · Batch RETA-2025-003

DATE ISSUED

February 10, 2025

## PRODUCT INFORMATION

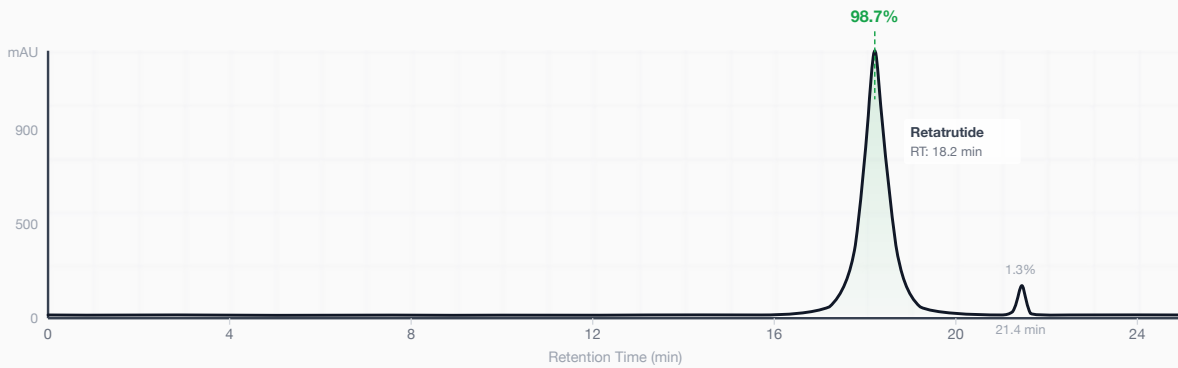
Product Name	<b>Retatrutide</b>
Catalog #	<b>APL-RETA-003</b>
CAS Number	<b>2381089-83-2</b>
Molecular Formula	<b>C<sub>221</sub>H<sub>342</sub>N<sub>46</sub>O<sub>68</sub></b>
Molecular Weight	<b>4813.45 g/mol</b>
Appearance	<b>White Lyophilized Powder</b>
Storage	<b>-20°C, protect from light &amp; moisture</b>

## BATCH & TESTING DETAILS

Batch / Lot #	<b>RETA-2025-003</b>
Manufacturing Date	<b>Jan 14, 2025</b>
Expiration Date	<b>Jan 14, 2027</b>
Testing Lab	<b>Analytical Testing Services</b>
Methods Applied	<b>HPLC · ESI-MS · KF · LAL</b>
Tests Performed	<b>10 / 10 Passed</b>
Overall Result	<b>✓ APPROVED</b>

## HPLC CHROMATOGRAM

Method	Column	Run Time	Flow Rate	Main Peak RT	Purity (Area%)
HPLC-UV 215 nm	C18 Reversed-Phase	25.0 min	1.0 mL/min	18.2 min	<b>98.7%</b>



## PURITY SUMMARY

## HPLC Purity — Main Peak Area %

98.7%

Specification:  $\geq 98.0\%$  · Result: 98.7% · Threshold exceeded by +0.7% · Status: PASS

## ANALYTICAL TEST RESULTS

TEST	METHOD	SPECIFICATION	RESULT	STATUS
Appearance	Visual Inspection	White to off-white lyophilized powder	White lyophilized powder	✓ PASS
Purity (HPLC)	HPLC-UV 215 nm	$\geq 98.0\%$	98.7%	✓ PASS
Identity (ESI-MS)	Electrospray Ionization MS	Matches theoretical MW	Confirmed 4813.4 Da	✓ PASS
Water Content	Karl Fischer Titration	$\leq 10.0\%$	5.2%	✓ PASS
pH (1% solution)	Potentiometry	6.0–8.0	6.8	✓ PASS
Solubility	Visual Dissolution	$\geq 1$ mg/mL in sterile water	Fully soluble	✓ PASS
Residual Solvents	GC-FID	Below ICH Q3C Limits	Not Detected	✓ PASS
Bacterial Endotoxins	LAL Chromogenic	$< 1.0$ EU/mg	0.12 EU/mg	✓ PASS
Bioburden	USP <61>	$< 100$ CFU/g	$< 10$ CFU/g	✓ PASS
Sterility	USP <71>	Sterile (No Growth)	No Growth Detected	✓ PASS

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