AEGIS PEPTIDE ANALYTICS

Certificate of Analysis

Independent Third-Party Testing Laboratory

CERTIFICATE NO.

APA-2026-000067

✓ OVERALL PASS

SAMPLE INFORMATION

COMPOUND:	**Retatrutide**	LOT NUMBER:	**BWX7K9A**
CAS NUMBER:	**2381037-68-7**	TEST DATE:	**August 15, 2026**
ISSUE DATE:	**August 16, 2026**	TESTING METHODS:	**HPLC-UV · LC-MS/MS · ICP-MS · LAL · Karl Fischer**

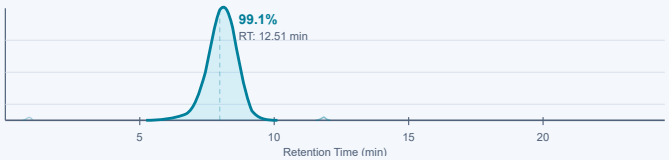
TEST RESULTS

01 Purity Analysis: HPLC-UV

USP <621>, Reverse-Phase C18, UV 220 nm

PURITY RESULT	SPECIFICATION	RESULT
99.1%	>=99.0%	✓ PASS

CHROMATOGRAM (ILLUSTRATIVE, REVERSE PHASE C18, 220 NM)



DETECTION λ	RETENTION TIME	PEAK AREA	COLUMN
220 nm	12.51 min	N/A	C18 150×4.6mm 5µm

02 Identity Confirmation: LC-MS/MS

ESI positive mode, Triple Quadrupole, USP <621>

MOLECULAR FORMULA

C210H330N56O65

✓ CONFIRMED

EXPECTED MW	OBSERVED $[M+H]^+$	MASS ERROR
4789.3 Da	[M+5H]5+ 958.9	+1.4 ppm

03 Heavy Metals Screening: ICP-MS

ICP-MS, USP <232>/<233>

ELEMENT	SYMBOL	RESULT (PPB)	LIMIT (PPB)	STATUS
Lead	Pb	<0.5	500	✓ PASS
Arsenic	As	<0.3	1,500	✓ PASS
Mercury	Hg	<0.1	300	✓ PASS
Cadmium	Cd	<0.2	500	✓ PASS
Chromium	Cr	<1.0	1,100	✓ PASS
Nickel	Ni	<1.0	2,000	✓ PASS
Copper	Cu	<2.0	3,000	✓ PASS
Cobalt	Co	<0.5	500	✓ PASS

04 Bacterial Endotoxins: LAL

Kinetic Turbidimetric LAL, USP <85>

ENDOTOXIN RESULT	ACCEPTANCE LIMIT	LAL SENSITIVITY	RESULT
<0.25 EU/mL	1 EU/mL	0.125 EU/mL	✓ PASS

05 Water Content: Karl Fischer Titration

Volumetric Karl Fischer Titration, USP <731>

WATER CONTENT	SPECIFICATION	RESULT
5.2%	≤ 8.0%	✓ PASS

Content vs. Limit (5.2% / 8.0%)

METHODOLOGY & QUALITY REFERENCES

All analytical procedures are performed in compliance with the current United States Pharmacopeia (USP), International Council for Harmonisation (ICH) guidelines, and applicable FDA Analytical Procedures guidance documents. Reference standards are NIST-traceable or USP-grade. Instruments are calibrated per manufacturer protocols and internal SOPs with documented calibration records. All results are issued as final and cannot be retroactively altered after certificate issuance.

USP <61>/<62> · USP <71> · USP <85> · USP <232>/<233> · USP <621> · USP <731> · USP <788> · ICH Q3C · ICH Q2(R2)

CHAIN OF CUSTODY

Sample Received	Analysis Start	Analysis Complete	Certificate Issued
N/A	August 15, 2026	August 15, 2026	August 16, 2026

Authorized Laboratory Signatory
Lab Director / Quality Manager

Date of Release
August 16, 2026

This certificate is issued by Aegis Peptide Analytics LLC. Results are specific to the sample tested and may not be representative of other lots or batches. This COA is for research purposes only and is not intended for use in diagnostic or therapeutic decisions.

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