CERTIFICATE OF ANALYSIS

BATCH DOCUMENTATION

RESEARCH USE ONLY — NOT FOR HUMAN USE

Retatrutide — 15 mg/vial

Batch RET-2026-02-23

PRODUCT REFERENCE PHOTOGRAPH

DOCUMENT SCOPE

This document reproduces analytical results reported in the supplier-provided COA for bulk batch RET-2026-02-23 (636.4 g). The 15 mg/vial designation is the product label claim. Individual vial fill weight, per-vial assay and content uniformity are not independently established by this bulk COA.

A. PRODUCT INFORMATION

Product	Retatrutide
CAS No.	2381089-83-2
Label claim	15 mg/vial — label claim
Batch number	RET-2026-02-23 (supplier bulk batch)
Bulk batch quantity	636.4 g
Manufacturing date	2026-02-23
Retest date	2028-02-22
Molecular formula	$C_{221}H_{342}N_{46}O_{68}$ *
Molecular weight	4731.42 Da
Storage conditions	Keep in a tight container, protect from light, store at -20 ± 5 °C

* Formula corrected for typographical formatting in the supplier-provided COA; supplier confirmation is pending.

B. SUPPLIER BATCH ANALYTICAL RESULTS

Test	Acceptance Criteria	Result
Identity & Appearance		
Appearance	White or off-white powder	**White powder**
Molecular ion mass	4731.42 ± 1	**Conforms**
Solubility	Can be dissolved to 5 mg/ml in pure water	**Conforms**
Physicochemical Properties		
pH (C = 5 mg/ml)	7.0–9.0	**7.47**
Water content (Karl Fischer)	NMT 8.0%	**4.25%**
Sodium ion	NMT 5.0%	**1.3%**
Purity (HPLC)		
Purity (HPLC)	NLT 98.0%	**99.34%**
Largest individual impurity	NMT 1.0%	**0.31%**
Total impurities	NMT 2.0%	**0.75%**

Test	Acceptance Criteria	Result
Residual Solvents & Counterions		
Methanol	NMT 3000 ppm	**N.D.**
N,N-Dimethylformamide	NMT 880 ppm	**N.D.**
Isopropyl ether	NMT 5000 ppm	**N.D.**
Methylene chloride	NMT 600 ppm	**N.D.**
Acetonitrile	NMT 410 ppm	**107 ppm**
TFA	NMT 0.1%	**N.D.**
PO_4^{3-}	NMT 0.1%	**N.D.**
Cl^-	NMT 0.1%	**N.D.**
Acetic acid	NMT 0.1%	**N.D.**
Microbiological		
Bacterial endotoxins	NMT 10 EU/mg	**Conforms**
TAMC	NMT 1000 cfu/g	**Conforms**
TYMC	NMT 100 cfu/g	**Conforms**
E. coli	Negative	**Conforms**
Salmonella	Negative	**Conforms**
P. aeruginosa	Negative	**Conforms**
S. aureus	Negative	**Conforms**
Content		
Peptide Content (Mass Balance)	NLT 80.0%	**93.78%**

Conclusion: Conforms with the product standards.

1. Purity (HPLC) is reported as chromatographic purity of the bulk batch material; it does not quantify the peptide content of an individual vial.
2. Reported as Peptide Content (Mass Balance) in the supplier-provided COA. No per-vial peptide mass is calculated or implied in this document.
3. Results shown as “Conforms” are reproduced as reported in the supplier COA, which states no numeric values for these tests.
4. ND = Not Detected · NMT = Not More Than · NLT = Not Less Than · TFA = Trifluoroacetic acid · TAMC = Total Aerobic Microbial Count · TYMC = Total Yeast and Mould Count

C. DOCUMENT SCOPE & LIMITATIONS

- The analytical results in this document are reported for the supplier's bulk batch RET-2026-02-23 (636.4 g) and do not constitute an independent assay of the contents of individual finished vials.
- 15 mg/vial is the product label claim. Individual vial fill weight, per-vial assay and content uniformity are not established by this document.
- No sterility is verified by this document. The bulk COA includes no sterility test, and no claim of sterility is made for the finished product.
- No numerical endotoxin or microbial results are reported where the supplier COA states only “Conforms”.
- This document is a presentation of the supplier's batch analysis. It is not a certificate issued by an independent laboratory and carries no laboratory accreditation.
- This product is for research use only and is not verified for human, medical or pharmaceutical use.

DOCUMENTATION BASIS — Analytical results reproduced from supplier-provided Certificate of Analysis, COA No. 2026-02-23, Batch RET-2026-02-23. This document is a presentation of the supplier's batch analysis and is not an independent laboratory certificate.

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