SIDECHAIN ANALYTICS

Certificate of Analysis

Lab ID: **RET-262_D**

REPORTED August 14, 2026

CUSTOMER

NAME Luxara Research Company

CONTACT Luxara Labs

ADDRESS LuxaraLabs.com

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	**RET-262_D**	Received:	**08/10/2026**
Compound:	**Retatrutide**	Analyzed:	**08/14/2026**
Report No.:	**COA-2026-SC-00986**	CAS:	**2381089-83-2**
Lot Number:	**R18623**	Formula:	**$C_{221}H_{342}N_{46}O_{68}$**
Total Mass:	**87.7 mg**	Mol Weight:	**4731.3 g/mol**
Appearance:	**Lyophilized powder**		

SAMPLE PHOTOGRAPH

§ 02 Analytical Results

Qualitative and Quantitative chemical analysis by Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

	SPECIFICATION	RESULT	STATUS
Compound Test:	Retatrutide	**Retatrutide**	
Net Peptide Content:	10.00 mg	**10.32 mg**	
Peptide Label Accuracy:	≥ 90 %	**103.2 %**	**PASS**
Chromatographic Purity:	≥ 98 %	**99.5 %**	

Chromatographic purity is the target peptide's HPLC-MS/MS principal component analysis, expressed as a percentage of total integrated peak area (Ph. Eur. 2.2.46) — it bounds peptide-related impurities only, not excipients, counter-ions, or residual water, and is separate from net peptide content. **—** indicates not determined.

SCAN TO VERIFY

COA-2026-SC-00986

sidechainanalytics.com/verify

§ 03 LC-MS/MS Detail

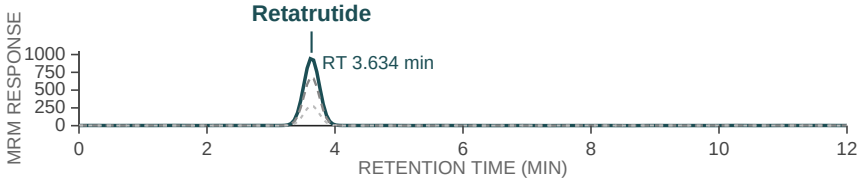
METHOD B · AGILENT 1290 INFINITY II + 6495 QQQ · ESI+

PRECURSOR [M+5H]5+

947.90 Da

Quantifier transition ● MRM

947.90 › 136.10 CE 30 V



ROLE	TRANSITION	CE
● Quantifier	947.9 › 136.1	30 V
■ Qualifier	947.9 › 110.1	35 V

Agilent Poroshell 120 EC-C18 · 2.1×100 mm · 2.7 µm · Solvent A: 0.1 % formic acid in H_2O · Solvent B: 0.1 % formic acid in Acetonitrile

SIDECHAIN ANALYTICS

Certificate of Analysis

Lab ID: **ENDO-RET-262_D**

REPORTED August 16, 2026

CUSTOMER

NAME Luxara Research Company

CONTACT Luxara Labs

ADDRESS LuxaraLabs.com

§ 01 Sample Information

FOR RESEARCH PURPOSES ONLY

Sample ID:	**ENDO-RET-262_D**	Received:	**08/10/2026**
Compound:	**Retatrutide**	Analyzed:	**08/16/2026**
Report No.:	**COA-2026-SC-00986-EN**	CAS:	**2381089-83-2**
Lot Number:	**R18623**	Formula:	**$C_{221}H_{342}N_{46}O_{68}$**
Total Mass:	**87.7 mg**	Mol Weight:	**4731.3 g/mol**
Aliquot mass:	**10.8 mg**		
Appearance:	**Lyophilized powder**		

SAMPLE PHOTOGRAPH

§ 02 Endotoxin Analysis

KINETIC CHROMOGENIC LAL/TAL ENDOTOXIN TEST (USP <85>)

BACTERIAL ENDOTOXIN · KINETIC CHROMOGENIC (QUANTITATIVE)

PASS

< 0.116 EU/mg

Measured endotoxin < 0.116 EU/mg is **within acceptance** (< 0.15 EU/mg).

Test method	Kinetic Chromogenic LAL/TAL Endotoxin Test (USP <85>)
Test kit	FireGene Kinetic Chromogenic Endotoxin Test Kit (FG-XSF005-96)
Reagent	TAL — Tachypleus amebocyte lysate + chromogenic substrate (pNA)
Instrument	SpectraMax 340PC-384 · SoftMax Pro 7.4
Detection	37 °C, kinetic absorbance read at 405 nm
Standard curve	0.005 – 10 EU/mL · log–log · r ≥ 0.980 (USP)
Sample dilution	Sample dilution 1:50 (working 0.086 mg/mL)
Mean onset time	5551 s
Result	< 0.116 EU/mg
Acceptance limit	< 0.15 EU/mg accept · 0.15–1.0 warning · > 1.0 fail
Spike recovery (PPC)	100%

Quantitative assay. The kinetic chromogenic TAL assay (USP <85>) measures bacterial endotoxin by monitoring a chromogenic reaction (p■nitroaniline release) at 405nm, read off a log–log standard curve over 0.005 – 10 EU/mL and normalized to the weighed sample mass (EU/mg). The determination is judged against the < 0.15 EU/mg accept · 0.15–1.0 warning · > 1.0 fail acceptance limit; the positive product control (spike) recovery must fall within 50–200% for the assay to be valid.

SCAN TO VERIFY

COA-2026-SC-00986-EN

VERIFICATION CODE

xkJxbqT72cKbE5YUY2Wdhw

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DISCLAIMER · RESEARCH USE ONLY

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