PrymaLab
PRYMALAB ANALYTICAL · IN-HOUSE LABORATORY
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CERTIFICATE NO.
PL-26-00084
VERIFICATION KEY
9W6BTT7M
Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE

Retatrutide 30 mg

Lot **PL-2609-084** · Lyophilized powder · Label claim **30 mg/vial**

TESTED IN-HOUSE BY PRYMALAB
In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2609-084	2026-09-18	2026-09-19	2026-10-03
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-09-18	300 / 3	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
Retatrutide LY3437943; GIP/GLP-1/glucagon receptor triple agonist	2381089-83-2	$C_{221}H_{342}N_{46}O_{68}$	4731.4 Da

SEQUENCE

H-Y-Aib-QGTFTSDYSI-[αMeLeu]-LDKK(AEEA-γGlu-C20 diacid)AQ-Aib-AFIEYLLEGGPSSGAPPPS-NH_2 (39 residues; Aib2, α-methyl-Leu13, Aib20; Lys17 acylated with eicosanedioic acid via γ-Glu and AEEA; C-terminal amide)

PURITY · RP-HPLC, AREA %
99.38%
Specification 99.0% • main peak at 8.72 min

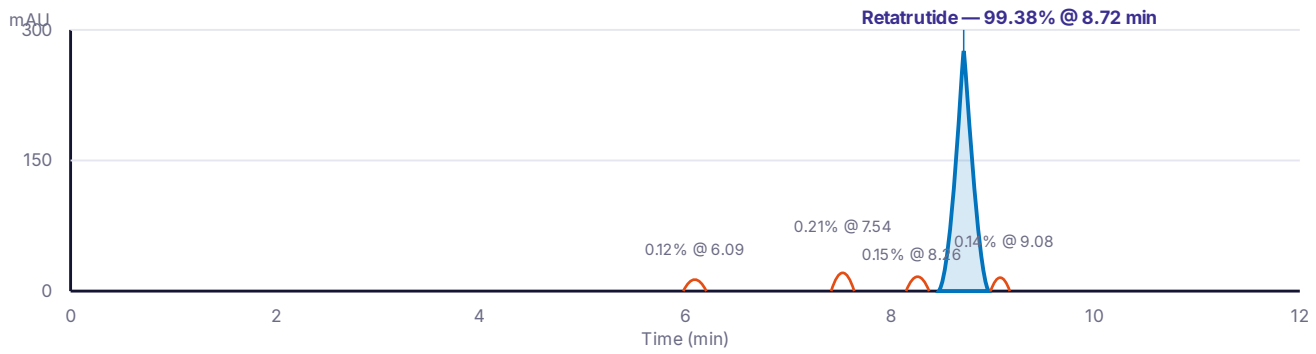
IDENTITY · OBSERVED MASS
4731.7 Da
Theoretical 4731.4 Da • +0.3 Da (63 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	White to off-white lyophilized powder	White lyophilized powder	PASS
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	4731.7 Da	PASS
Purity	RP-HPLC, UV 214 nm, area%	99.0%	99.38%	PASS
Largest impurity	RP-HPLC, area%	1.0%	0.21% at 7.54 min (Gln 3 /Gln 19 deamidation)	PASS
Water content	Karl Fischer	5.0%	1.8%	PASS
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.08 EU/mg	PASS
Sterility / bioburden	USP <71>, membrane filtration	No growth after 14 days	No growth; conforms	PASS

1 HPLC CHROMATOGRAM

Data file: RET_PL-2609-084_20260919_01 · Column C18 150 × 4.6 mm · UV 214 nm



Baseline uncropped; main peak and impurities labeled with retention times. Peak table on page 2.

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · RET_PL-2609-084_20260919_01

INSTRUMENT Waters Alliance e2695, SN E2695B742	DATA SYSTEM Empower 3, Build 3471	DETECTOR Waters 2998 PDA
DETECTION WAVELENGTH 214 nm	COLUMN C18, 150 × 4.6 mm, 3.5 µm	COLUMN PART / SERIAL 186003326 / USHX19500
MOBILE PHASE A 0.1% TFA in water	MOBILE PHASE B 0.1% TFA in MeCN	FLOW RATE 1.0 mL/min
COLUMN TEMPERATURE 40 °C	INJECTION VOLUME 20 µL	RUN TIME 12 min
SAMPLE DILUENT 0.1% TFA in 30% MeCN	SAMPLE CONCENTRATION 0.5 mg/mL	BLANK INJECTED Yes
REFERENCE STANDARD In-house Retatrutide reference, lot PL-RS-RET-01, RT 8.69 min		

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	65	35
2.0	65	35
9.0	25	75
10.0	15	85
11.0	15	85
12.0	65	35

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	6.09	5,678	0.12
2 (deamid.)	7.54	9,937	0.21
3	8.26	7,098	0.15
4	**8.72**	**4,702,407**	**99.38**
5	9.08	6,624	0.14
Total		4,731,744	100.00

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT Waters Acquity SQD	IONIZATION / MODE ESI, positive	OBSERVED M/Z (CHARGE) 947.3 (5+ [M+5H]) · 789.6 (6+ [M+6H])
DECONVOLUTED MASS 4731.7 Da	THEORETICAL MASS 4731.4 Da	DIFFERENCE +0.3 Da (63 ppm)
DATA FILE RET_PL-2609-084_MS_20260919_01	ACCEPTANCE Within ± 1.0 Da	

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	PrymaLab	2026-09-19	RPT-KF-PL-2609-084
Endotoxin	PrymaLab	2026-09-19	RPT-ET-PL-2609-084
Sterility	PrymaLab	2026-09-19	RPT-ST-PL-2609-084

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-09-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-02

M. Phelps
Lab Director · approved for release
Date: 2026-10-03

Raw data retained at: Empower 3 (Build 3471), project PL-2609, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00084 and key 9W6BTT7M at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.