

SAMPLE AND CLIENT

Client	UK Peptides	Report number	CL-26-97000
Sample as labelled	Retatrutide 10mg	Order reference	C0-26-97000
Batch or lot	RET10-2609-08	Sample ID	S-26-97000
Label claim	10 mg	Order placed	1 September 2026
Analysis requested	GLP-1 analogue analysis	Received at lab	3 September 2026
		Analysis completed	7 September 2026
Description	Lyophilised white powder in a 3 ml glass vial, grey flip-off cap.		
Condition on receipt	Sealed, tamper-evident cap intact. Lyophilised cake intact, white, dry.		

SUMMARY OF RESULTS

IDENTITY	PURITY	CONTENT PER VIAL
Consistent with Retatrutide	99.29 %	10.11 mg

RESULTS

PARAMETER	RESULT	UNIT	METHOD
Identity Observed 4731.4 Da (average), expected 4731.3 Da	Consistent with Retatrutide		LC-MS (ESI+)
Purity	99.29	%	HPLC-UV, 214 nm, peak area
Content per vial 101.1% of the 10 mg label claim. Mean of 2 injections. Expanded uncertainty ± 0.27 mg ($k = 2$)	10.11	mg	HPLC-UV against reference standard

AUTHORISATION

ANALYSED BY

**James Okafor**
Analyst, MChem

Signed electronically

7 September 2026

REVIEWED AND APPROVED BY

**Dr Hannah Reid**
Senior analyst, PhD, Analytical Chemistry

Approved electronically

7 September 2026

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REPORT NUMBER

CL-26-97000

VERIFICATION KEY

7374-7JMG-6AF4Only trust results shown on clarionlaboratories.co.uk.

CHROMATOGRAM

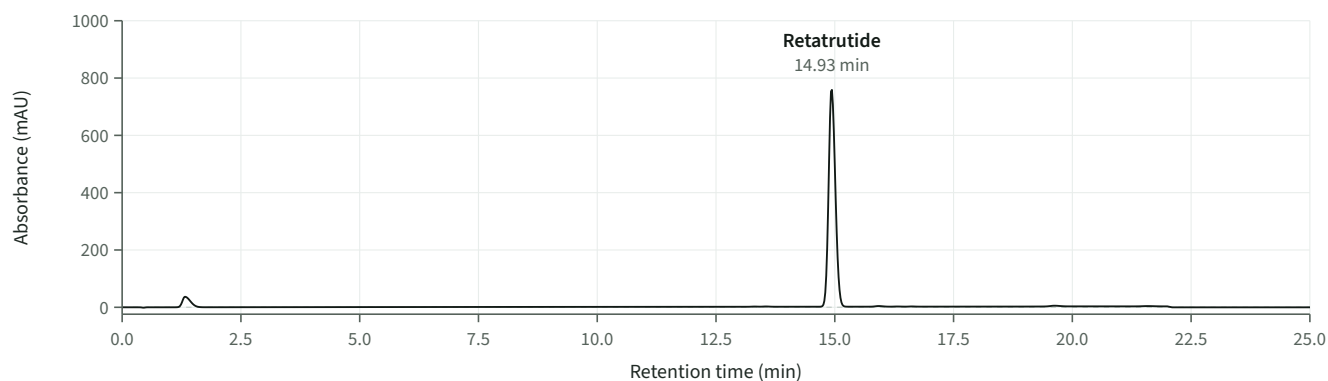


Figure 1. UV 214 nm chromatogram. Run RUN-260907-02, acquired 7 September 2026 at 09:11 UK time.

PEAK TABLE

PEAK	RT (min)	RRT	AREA (mAU·s)	HEIGHT (mAU)	AREA %
1	13.31	0.891	6.8	0.7	0.09
2	13.55	0.908	9.8	1.0	0.13
3 Retatrutide	14.93	1.000	7497.7	763.4	99.29
4	15.92	1.066	24.9	2.2	0.33
5	16.31	1.092	6.0	0.6	0.08
6	16.62	1.113	6.0	0.7	0.08
Total			7551.2		100.00

Main peak: peak 3 (Retatrutide). Purity by area normalisation: 99.29 %. RRT: retention time relative to the main peak. Peaks too small to resolve at the plot scale are integrated and listed above.

CONTENT PER VIAL

Reference standard	STD-0121, Retatrutide reference standard, lot RS-RET-2609	
Assigned content	90.6% w/w peptide, as free base, expires 30 September 2027	
Calibration	5 levels, 0.05 to 1.00 mg/ml, slope 18,577 mAU·s per mg/ml, $r^2 = 0.9999$	
Preparation	Vial contents dissolved in 1.000 ml of 0.1% TFA in water, then diluted 1 in 25 with mobile phase A (0.404 mg/ml).	
INJECTION	PEAK AREA (mAU·s)	CONTENT PER VIAL (mg)
1	7497.68	10.09
2	7527.40	10.13
Mean	10.11 mg	
Repeatability	RSD 0.28 % (n = 2)	
Expanded uncertainty	± 0.27 mg (k = 2, about 95% confidence)	

IDENTITY BY LC-MS

Ionisation	Electrospray, positive ion	Run	MS-260907-02
Scan range	m/z 300 to 2000	Acquired	7 September 2026 at 12:06 UK time
Base peak	m/z 947.31	Mass accuracy	within 0.03 m/z of theoretical
Charge states	3+, 4+, 5+, 6+, 7+	Ions assigned	5

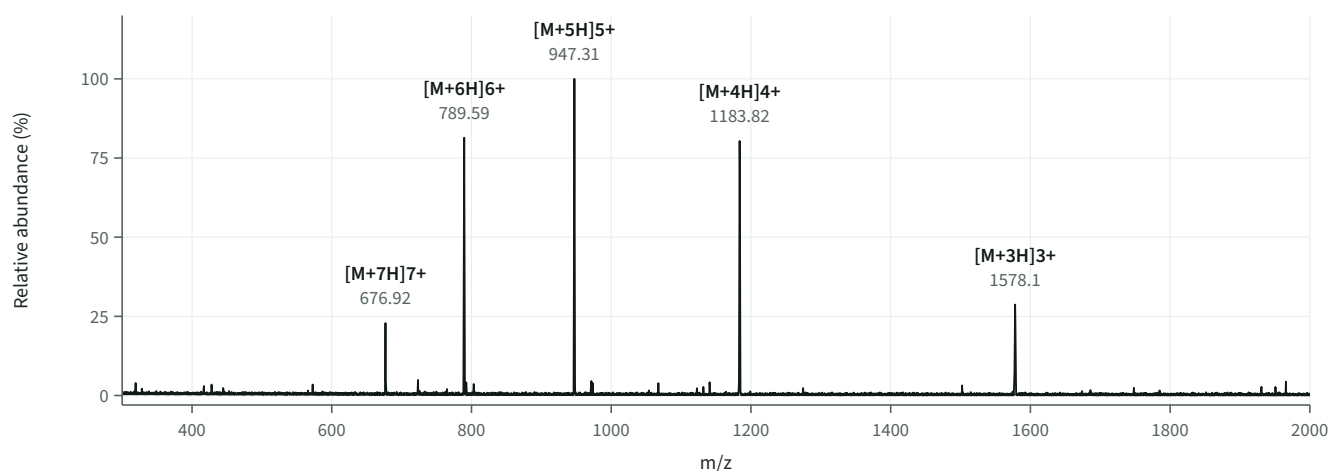


Figure 2. Electrospray mass spectrum (positive ions) across the main chromatographic peak. Run MS-260907-02, acquired 7 September 2026 at 12:06 UK time.

ION ASSIGNMENT

ION	CHARGE	THEORETICAL (m/z)	OBSERVED (m/z)	DIFFERENCE (m/z)
1 [M+7H]7+	7+	676.91	676.92	+0.01
2 [M+6H]6+	6+	789.57	789.59	+0.02
3 [M+5H]5+	5+	947.28	947.31	+0.03
4 [M+4H]4+	4+	1183.84	1183.82	-0.02
5 [M+3H]3+	3+	1578.12	1578.10	-0.02

DECONVOLUTED NEUTRAL MASS

COMPOUND	THEORETICAL (Da)	OBSERVED (Da)	DIFFERENCE	LIMIT (Da)	RESULT
Retatrutide (average)	4731.3	4731.4	+0.1	±1.0	Consistent

MS export file 2026-09-07_S-26-97000_MS.csv

SHA-256 87f078dfcf78a0ce7083809b12dddb04026c467e33ac88cd59e97386b81aa75f

The spectrum is read directly from the instrument export named above; every ion in the table is a peak in it. Neutral mass is deconvoluted from the observed charge states (average mass above 2,000 Da, monoisotopic below). Difference = observed minus theoretical.

STATEMENTS

Results relate only to the sample as received, supplied by the client; details marked as labelled or as stated by client come from the client. For research use only; reproduce only in full. No specification was set for this sample, so results are reported as measured, not as a pass or fail. Raw instrument data and SHA-256 fingerprints retained. Verify any copy at clarionlaboratories.co.uk/verify.

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