



DOC PV-COA
REPORT PV-A459AC-BBHW
ISSUED 19/08/2026

ANALYSED BY AN INDEPENDENT UK LABORATORY PARTNER USING ESTABLISHED HPLC & LC-MS METHODS.

00 ASSESSMENT SAMPLE AS RECEIVED

PURITY – HPLC

98.35%

Peak Purity Index (PPI) of the integrated UV signal. Single integrated peak.
What this means: 98.35% is the reported purity figure for this sample.

IDENTITY - LC-MS

- **Confirmed**

Detected intact mass 4,112.4 Da vs expected 4,113.58 Da; charge states agree and base peak matches.

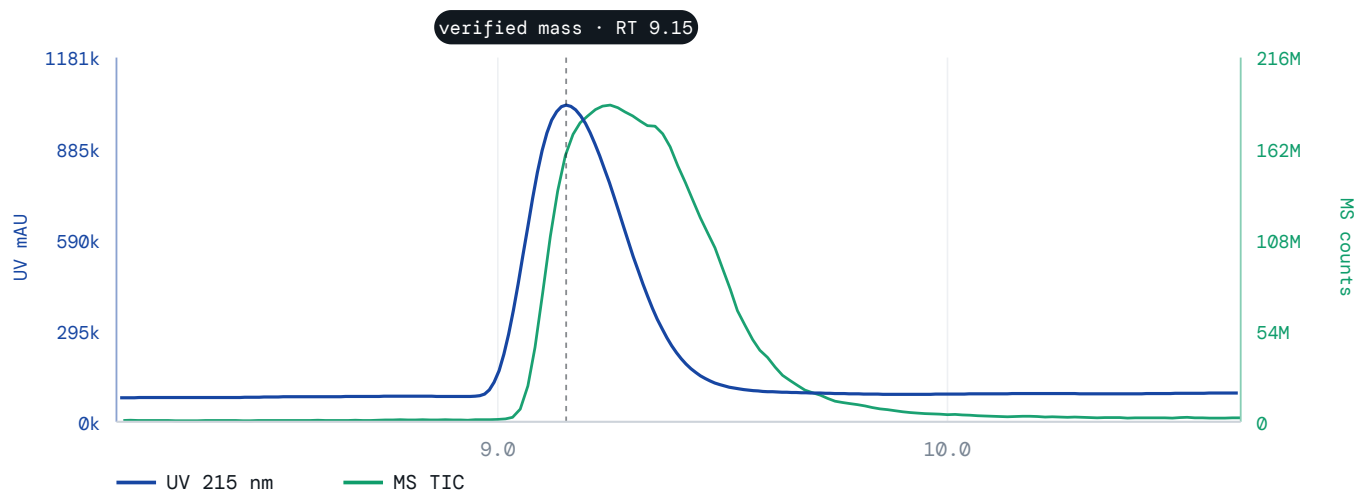
What this means: the detected molecular weight matches the declared peptide within method tolerance.

⊕ SAMPLE DESCRIPTION & LAB NOTES _____ RECORDED ON RECEIPT

FORM	COLOUR	CONDITION	OBSERVED RT	MS / IDENTITY MATCH
Lyophilized powder	White	As Expected	9.15 min	As Expected

01 HPLC + LC-MS - CO-ELUTION PDA 215 NM · ESI TIC

UV PURITY PEAK (BLUE, LEFT AXIS) AND LC-MS TOTAL-ION RESPONSE (GREEN, RIGHT AXIS) ON ONE RETENTION-TIME AXIS - THE VERIFIED MASS CO-ELUTES WITH THE UV PEAK - WINDOW 8.2-10.7 MIN.



PEAK	RT / MIN	AREA	AREA %	PPI %	TAILING	PLATES N
1	9.152	14,054,351	100.00	98.4	1.48	8,253

PPI % = Peak Purity Index – the reported purity (spectral homogeneity). **Area %** = this peak's share of total UV area, not a purity claim. Tailing = peak symmetry;
Plates N = column efficiency.



02 LC-MS – IDENTITY

ESI · INTACT-MASS DECONVOLUTION



Identity: Confirmed. 3 independent charge states ([M+3H]3+, [M+4H]4+, [M+5H]5+) deconvolute to the same intact mass (≈ 4,112.4 Da), matching Semaglutide within the method's unit-resolution tolerance. Base peak corresponds to the expected dominant charge state.

03 SYSTEM SUITABILITY

PARAMETER	RESULT	LIMIT	OUTCOME
Tailing factor (T) – main peak	1.48	≤ 3.5	PASS
Theoretical plates (N)	8,253	≥ 600	PASS
Detector / wavelength	PDA	215 nm	PASS

04 VERIFICATION

TAMPER-EVIDENT RECORD

● INDEPENDENTLY VERIFIABLE

peptideverify.co.uk/verify/PV-A459AC-BBHW

INTEGRITY SHA-256 · 017c0baf_60998019

SOURCE DATA · 20260814 Batch 2_PV-A459AC-BBHW_072.lcd

Scan or visit the URL to confirm this certificate against PeptideVerify's source record.

AUTHORISED BY

C Bray

CHRISTOPHER BRAY · PEPTIDEVERIFY · 19/08/2026

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