



	DOC	PV-COA
REPORT	PV-E8B4E0-ASNN-5F	
ISSUED	17/08/2026	

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

CERTIFICATE ID	PREPARED FOR	SAMPLE	EXPECTED MW
PV-E8B4E0-ASNN-5F	Lumina Biologics	MOTS-c	2,174.59 Da
SERVICE TIER	BATCH / LOT	ANALYSIS DATE	INSTRUMENT
Combined · HPLC + LC-MS	Not provided	17/08/2026 17:39	Shimadzu LCMS-8040 · PDA
METHOD	DETECTION	MS IONIZATION	ACQUISITION
HPLC + ESI-MS	UV 215 nm (±4)	ESI+	Single injection · UV and MS in line

SAMPLE AS RECEIVED

PURITY – HPLC

99.40%

Peak Purity Index (PPI) of the integrated UV signal. Single integrated peak.
What this means: 99.40% is the reported purity figure for this sample.

IDENTITY - LC-MS

- **Confirmed**

Detected intact mass 2,173.7 Da vs expected 2,174.59 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

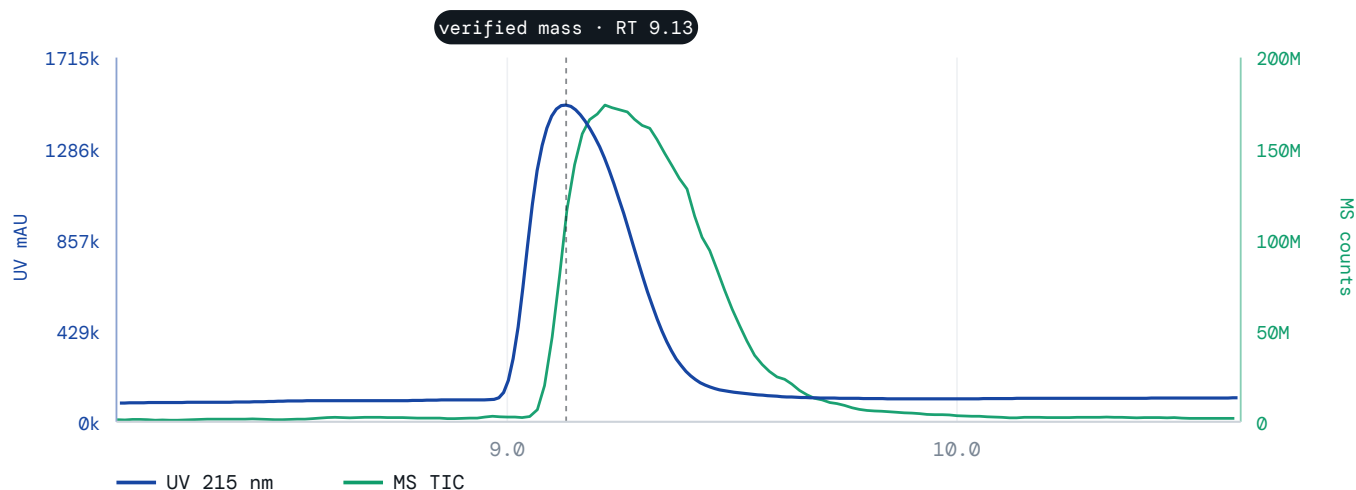
RECORDED ON RECEIPT

FORM	COLOUR	CONDITION	OBSERVED RT	MS / IDENTITY MATCH
Lyophilized powder	White	As Expected	9.13 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 8.1-10.6 MIN.



PEAK	RT / MIN	AREA	AREA %	PPI %	TAILING	PLATES N
1	9.131	20,636,401	100.00	99.4	1.66	8,897

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+2H]2+, [M+3H]3+, [M+4H]4+) deconvolute to the same intact mass (≈ 2,173.7 Da), matching MOTS-c 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	1.66	≤ 3.5	PASS
Theoretical plates (N)	8,897	≥ 600	PASS
Detector / wavelength	PDA	215 nm	PASS

04 VERIFICATION

TAMPER-EVIDENT RECORD

● INDEPENDENTLY VERIFIABLE

peptideverify.co.uk/verify/PV-E8B4E0-ASNN-5F

INTEGRITY SHA-256 · ece040aa_947a9012

SOURCE DATA · 20260814 Batch 2_PV-E8B4E0-ASNN-5F_033.lcd

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

AUTHORISED BY

C Bray

CHRISTOPHER BRAY · PEPTIDEVERIFY · 17/08/2026

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