



DOC PV-COA
REPORT PV-57CB0E-PYRB-8C
ISSUED 10/07/2026

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

CERTIFICATE ID	PREPARED FOR	SAMPLE	EXPECTED MW
PV-57CB0E-PYRB-8C	BioSupplyUK	Melanotan I	1,646.90 Da
SERVICE TIER	BATCH / LOT	ANALYSIS DATE	INSTRUMENT
Combined · HPLC + LC-MS	BSUK003	10/07/2026 09:32	Shimadzu LCMS-8040 · PDA
METHOD	DETECTION	MS IONIZATION	
HPLC + ESI-MS	UV 215 nm (±4)	ESI+	

SAMPLE AS RECEIVED

PURITY – HPLC

99.5%

Peak Purity Index (PPI) of the integrated UV signal. Single integrated peak.

What this means: 99.5% is the reported purity figure for this sample.

IDENTITY - LC-MS

- **Confirmed**

Detected intact mass 1,646.2 Da vs expected 1,646.90 Da; charge states agree and base peak matches.

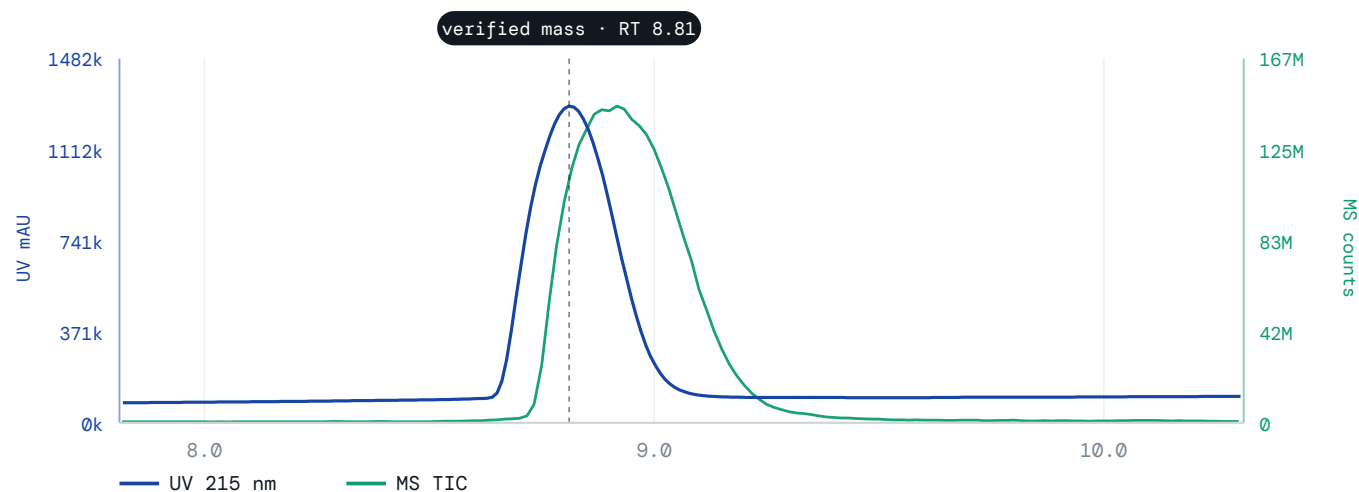
What this means: the detected molecular weight matches the declared peptide within method tolerance.

RECORDED ON RECEIPT

FORM	COLOUR	CONDITION	OBSERVED RT	MS / IDENTITY MATCH
Lyophilized powder	White	As Expected	8.81 min	As Expected

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 7.8-10.3 MIN.



PEAK	RT / MIN	AREA	AREA %	PPI %	TAILING	PLATES N
1	8.811	15,525,954	100.00	99.5	1.23	10,258

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



CHARGE STATE	EXP. M/Z	OBS. M/Z	CALC. MW	INTENSITY	MATCH
[M+2H]2+	824.44	824.05	1646.1	11,188,291	MATCH
[M+3H]3+	549.96	549.75	1646.2	16,473,649	MATCH

Identity: Confirmed. 2 independent charge states ([M+2H]2+, [M+3H]3+) deconvolute to the same intact mass ($\approx$ 1,646.2 Da), matching Melanotan I 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	1.23	$\leq$ 3.5	PASS
Theoretical plates (N)	10,258	$\geq$ 600	PASS
Detector / wavelength	PDA	215 nm	PASS

04 VERIFICATION

TAMPER-EVIDENT RECORD

● INDEPENDENTLY VERIFIABLE

peptideverify.co.uk/verify/PV-57CB0E-PYRB-8C

INTEGRITY SHA-256 · 0176d46a...2d967eca

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

AUTHORISED BY

C Bray

CHRISTOPHER BRAY · PEPTIDEVERIFY · 10/07/2026

TERMS This certificate reports analysis of the sample as received. It is not a guarantee of other units or batches, and is not an endorsement of any product, seller or vendor. For research use only – not for human consumption, and not a safety assessment or medical advice. Confirm authenticity at peptideverify.co.uk/verify.