



DOC PV-COA
REPORT PV-57CB0E-PYRB-1C
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-1C	BioSupplyUK	Thymosin Beta-4 (Full)	4,963.00 Da
SERVICE TIER	BATCH / LOT	ANALYSIS DATE	INSTRUMENT
Combined · HPLC + LC-MS	BSUK003	10/07/2026 09:17	Shimadzu LCMS-8040 · PDA
METHOD	DETECTION	MS IONIZATION	
HPLC + ESI-MS	UV 215 nm (±4)	ESI+	

SAMPLE AS RECEIVED

PURITY – HPLC

99.2%

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

What this means: 99.2% is the reported purity figure for this sample.

IDENTITY - LC-MS

- **Confirmed**

Detected intact mass 4,962.1 Da vs expected 4,963.00 Da; charge states agree and base peak matches.

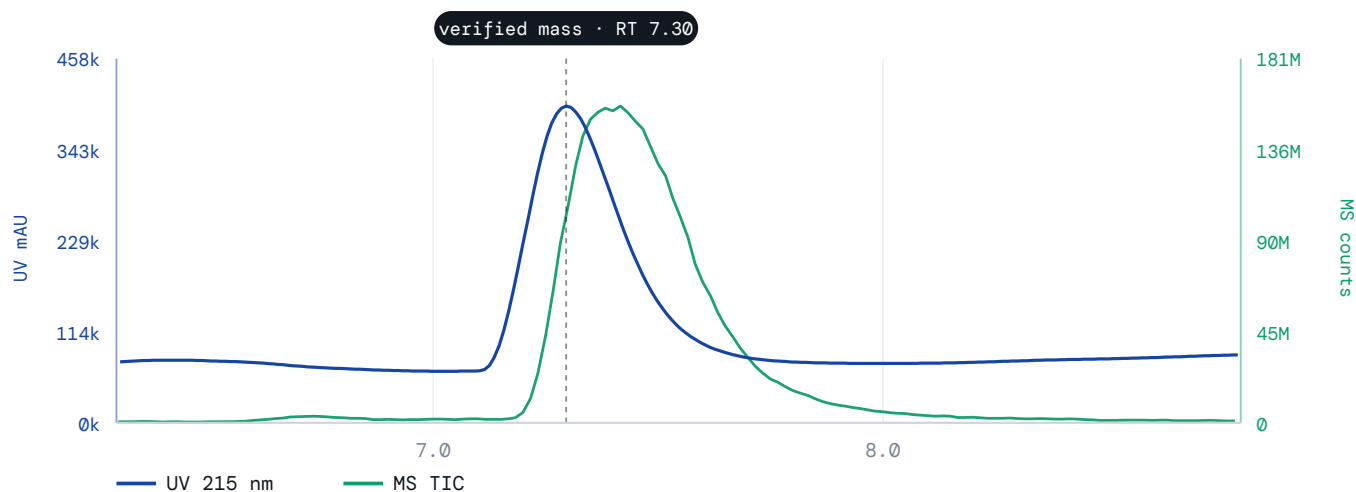
What this means: the detected molecular weight matches the declared peptide within method tolerance.

RECORDED ON RECEIPT

FORM	COLOUR	CONDITION	OBSERVED RT	MS / IDENTITY MATCH
Lyophilized powder	White	As Expected	7.30 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 6.3-8.8 MIN.



PEAK	RT / MIN	AREA	AREA %	PPI %	TAILING	PLATES N
1	7.296	4,890,109	99.20	99.2	1.59	5,476

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. 5 independent charge states ([M+4H]4+, [M+5H]5+, [M+6H]6+, [M+7H]7+, [M+8H]8+) deconvolute to the same intact mass ($\approx$ 4,962.1 Da), matching Thymosin Beta-4 (Full) 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	1.59	$\leq$ 3.5	PASS
Theoretical plates (N)	5,476	$\geq$ 600	PASS
Detector / wavelength	PDA	215 nm	PASS

04 VERIFICATION

TAMPER-EVIDENT RECORD

● INDEPENDENTLY VERIFIABLE

peptideverify.co.uk/verify/PV-57CB0E-PYRB-1C

INTEGRITY SHA-256 · f9a1d9b6...af720f0b

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.