VERIFIED VIALS

VV-COA-TB-001
Document reference

19 October 2026
Date issued

Certificate of Analysis

TB-500 · Research Grade Peptide — Purity & Identity (HPLC + LC-MS)

Issued by Verified Vials on the basis of testing carried out by an independent third-party laboratory, PeptideVerify.

01 PRODUCT

PRODUCT
TB-500 · Research Grade Peptide

INTENDED USE
Laboratory research use only

SUPPLIED BY
Verified Vials, Belfast, Northern Ireland

SAMPLE NAME ON LABORATORY RECORD
Thymosin Beta-4 (Full)

BATCH NUMBERS & EXPIRY
2 mg TB2-260626-A · 5 mg TB5-260626-A · 10 mg TB10-260626-A · Expiry 26 June 2029

02 RESULT

PURITY — HPLC (UV)

98.90 %

2 peaks detected · minor peaks included in the purity figure

✓ IDENTITY CONFIRMED

LC-MS identity check: the detected ion pattern matches the laboratory's reference for Thymosin Beta-4 (Full).

Purity reflects UV-detectable compounds only; non-UV excipients are not measured by this method.

03 TEST DETAILS

LABORATORY
PeptideVerify (independent of the supplier)

LABORATORY CERTIFICATE
PV-6D24CD-AFFI-A9

LABORATORY CERTIFICATE ISSUED
9 February 2026

TEST TYPE
HPLC + LC-MS

METHOD
HPLC + ESI-MS

ANALYSIS DATE
9 February 2026

INSTRUMENT
Shimadzu LCMS-8040

SAMPLE AS RECEIVED
White lyophilised powder

CONDITION ON RECEIPT
As Expected

04 IDENTITY & SYSTEM SUITABILITY

PARAMETER	OBSERVED	ACCEPTANCE / REFERENCE	OUTCOME
MS identity match (ESI-MS)	Ion pattern matches reference	Lab reference: Thymosin Beta-4 (Full)	CONFIRMED
Detected molecular weight	4963.1 Da	Expected MW: 4963.0 Da	—
Main peak retention time	9.547 min	Total peaks detected: 2	—
Resolution (Rs)	5.72	≥ 1.5	PASS
Tailing factor (T)	1.75	≤ 3.5	PASS
Theoretical plates (N)	510.00	≥ 600	OUTSIDE RANGE

Theoretical plates (N) (510.00) was reported by the laboratory as outside its acceptance limit of ≥ 600 and is shown here exactly as reported. The laboratory notes that minor peaks are common in synthetic peptides, typically synthesis-related by-products such as incomplete sequences or minor structural variants, and are included in the purity calculation. Sample received as a white lyophilised powder, condition as expected. Purity is the HPLC purity reported by the laboratory and reflects UV-detectable compounds only; non-UV excipients (mannitol, sugars, salts) are not measured.

05 VERIFICATION & AUTHORISATION

peptideverify.co.uk/verify/PV-6D24CD-AFFI-A9

The analysis was carried out by PeptideVerify. Their certificate PV-6D24CD-AFFI-A9 is the source record for every figure on this page and can be checked at the address above or by scanning the code.

This document is issued by Verified Vials and summarises that laboratory record. It is not a PeptideVerify document.

AUTHORISED BY
Quality Control
Verified Vials
19 October 2026

SIGNATURE

For laboratory research use only. Not for human or veterinary use. This certificate relates to the sample as received by the laboratory and summarises the laboratory's reported findings for that sample. It is not a guarantee of other units or batches, is not a safety assessment, and is not medical advice. Where this summary and the laboratory record differ, the laboratory record prevails.