

PRODUCT

TB-500

Thymosin beta-4

CATALOG	VA-TB500-5MG
CAS	77591-33-4
FORMULA	C212H350N56O78S
MOL. WEIGHT	4963.0 avg · 4960.48 monoisotopic
SEQUENCE	Ac-Ser-Asp-Lys-Pro-Asp-Met-Ala-Glu-Ile-Glu-Lys-Phe-Asp-Lys-Ser-Lys-Leu-Lys-Lys-Thr-Glu-Thr-Gln-Glu-Lys-Asn-Pro-Leu-Pro-Ser-Lys-Glu-Thr-Ile-Glu-Gln-Glu-Lys-Gln-Ala-Gly-Glu-Ser
FORM	Lyophilized powder
FILL WEIGHT	5 mg
CONTAINER	3 mL vial

BATCH

BATCH IDENTIFIER	
VA-2512-2631	
MANUFACTURED	2026-04-30
FILLED	2026-05-12
ANALYSED	2026-05-17
RETEST BY	2028-04-30
STORAGE	Refrigerated, 2-8 °C, protected from light

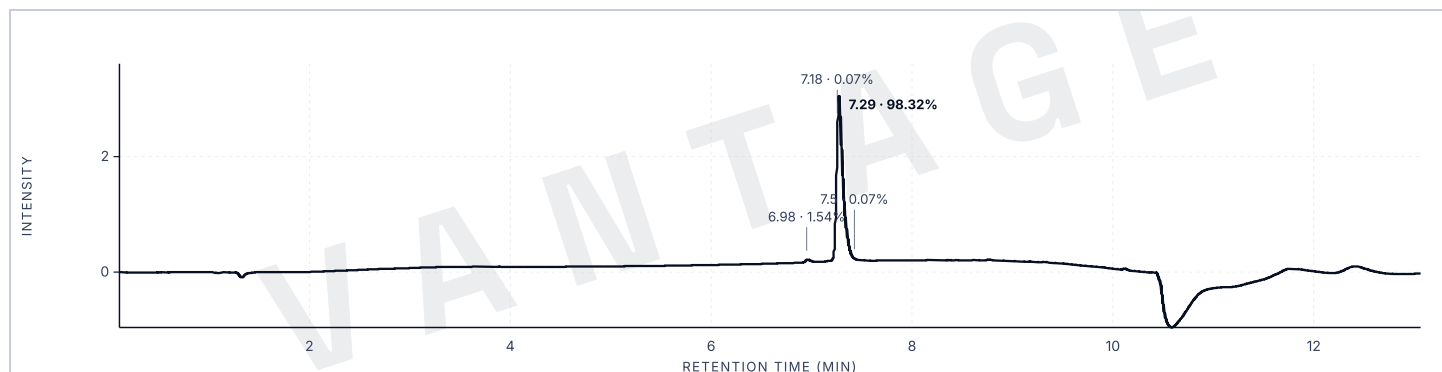
RESULTS

TEST / METHOD	SPECIFICATION	RESULT	STATUS
Appearance Visual inspection (Vantage Aminos)	White lyophilized powder	Conforms	PASS
Identity HPLC-UV-MS, positive polarity (+MS)	Theoretical mass ± 1.0 Da	4960.58 Da (theor. 4960.48)	PASS
Purity HPLC-UV, area % · DAD 209.9-290.1 nm	≥ 98.0 %	98.32 %	PASS
Quantity Quantitation as reported	90-110 % of label (5 mg)	5.237 mg (104.7 % of label)	PASS
Largest single impurity HPLC-UV, area %	Report	1.54 % at 6.98 min	REPORT
Water content Karl Fischer titration	≤ 8 % w/w	4.34 % w/w	PASS

HOW TO VERIFY THIS CERTIFICATE

- 1 All units are shipped from the most recent batch. Confirm the compound and fill weight shown above match the product you ordered.
- 2 This certificate is published on the product page at <https://vantageaminos.co/product/tb-500-thymosin-beta-4-fragment/>, alongside the certificate for every other batch of this product.
- 3 Any question about this analysis: contact support@vantageaminos.co quoting the batch identifier above.

HPLC CHROMATOGRAM



UV chromatogram, 209.9-290.1 nm

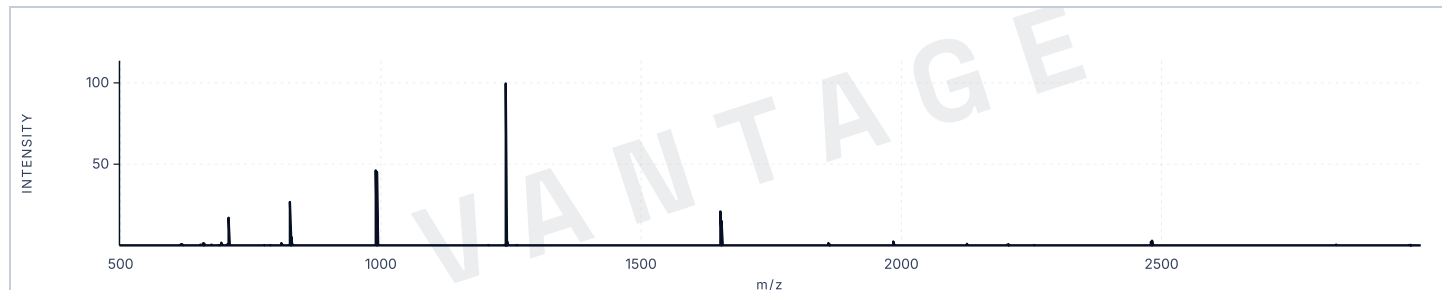
PEAK INTEGRATION

RT (MIN)	AREA	AREA %	ASSIGNMENT
6.98	2.02E+03	1.54	unassigned
7.18	9.46E+01	0.07	unassigned
7.29	1.29E+05	98.32	Thymosin beta4
7.5	9.12E+01	0.07	unassigned

MASS SPECTROMETRY

Technique	HPLC-UV-MS (as printed on certificate)
Ionisation	Positive polarity (+MS)
Scan range	m/z 497.7 – 2997.6 (as plotted)
Theoretical mass	4960.48 Da
Observed mass	4960.58 Da
Deviation	+0.10 Da

MASS SPECTRUM



Full-scan mass spectrum. Base peak m/z 1241.65

HPLC METHOD

Technique	Reverse-phase HPLC with UV detection, MS confirmation
Detection	209.9-290.1 nm (DAD range, not a single wavelength)