



CERTIFICATE OF ANALYSIS

REPORT NUMBER ONE-TB10-2026

VERIFICATION CODE RD52ENDD

Verify at UnitedLaboratories.Org

Client: One Aminos LLC

Sample information

PRODUCT	TB-500	ACTIVE IDENTITY	Thymosin beta-4
BATCH / LOT NUMBER	040845	LABORATORY SAMPLE ID	ONE-TB10
LABELED QUANTITY	10 mg	FORM	Lyophilized powder
CAS NUMBER	77591-33-4	MOLECULAR FORMULA	C212H350N56O78S
CAP COLOR	Black	CRIMP COLOR	Silver
DATE RECEIVED	07/06/2026	DATE ISSUED	07/24/2026

Test results

Test	Reference standard	Result	Status
Batch Avg Purity	> 98 %	99.52%	PASS
Batch Avg Net Content	~ 10 mg	10.70mg	PASS
Identity Confirmation (LC-MS)	Matches label	Thymosin beta-4	PASS
Endotoxin Safety Screen	≤ 0.5 EU/mL	< 0.20 EU/mL	PASS
Microbial Sterility Screen	No Growth	No Growth	PASS

Heavy metal screening

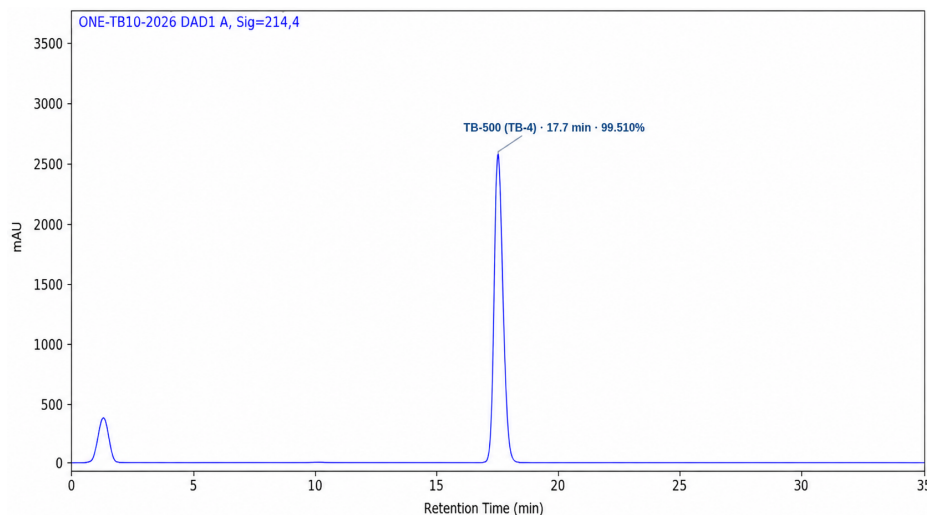
Analyte	Result	Status
Arsenic (As)	Negative	PASS
Cadmium (Cd)	Negative	PASS
Lead (Pb)	Negative	PASS
Mercury (Hg)	Negative	PASS

Conformity Results

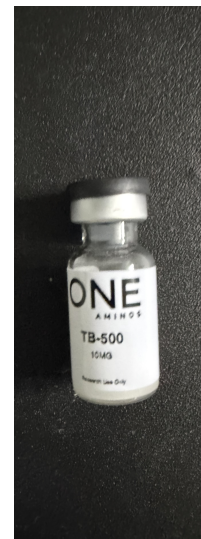
Vial	Purity (%)	Net content
Vial 1	99.510	10.62 mg
Vial 2	99.510	10.67 mg
Vial 3	99.540	10.81 mg
Published mean	99.52%	10.70mg

Chromatogram

RP-HPLC | C18 | DAD @ 214 nm



Sample vial





RAPID STERILITY SCREEN

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Client and sample information

CLIENT	One Aminos LLC	SAMPLE NAME	TB-500
BATCH / LOT NUMBER	040845	LABORATORY SAMPLE ID	ONE-TB10
DATE ISSUED	07/24/2026	SAMPLE MATRIX	Lyophilized powder

Test methodology

Rapid Sterility Screening Method. The sample was reconstituted and incubated in growth media under controlled conditions; cultures were monitored for microbial growth. This is a preliminary quality-control screen, and full compendial sterility testing may be required for regulatory compliance.

Test results

Test parameter	Specification	Result	Status
Bacteria (Aerobic/Anaerobic)	No Growth	No microbial growth detected	PASS
Fungi / Yeast	Not Detected	Not Detected	PASS

Test conditions

TEST METHOD	Rapid Sterility	INCUBATION PERIOD	2 days
TEMPERATURE	30-35 deg C	SAMPLE MATRIX	Lyophilized powder

SAMPLE PASSES STERILITY SCREEN - NO MICROBIAL GROWTH DETECTED

Review record

DATE ISSUED	07/24/2026	REPORT NUMBER	ONE-TB10-2026
VERIFICATION CODE	RD52ENDD	REVIEW STATUS	Authorised by Lab Director
LAB DIRECTOR	Bhavrat Singh	LABORATORY SAMPLE ID	ONE-TB10



HEAVY METALS ANALYSIS

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ICP-MS, EPA-referenced methods

Client and sample information

CLIENT	One Aminos LLC	DATE ISSUED	07/24/2026
PRODUCT NAME	TB-500	STRENGTH	10 mg
BATCH / LOT	040845	LABORATORY SAMPLE ID	ONE-TB10
VERIFICATION CODE	RD52ENDD	CONDITION	Lyophilized powder

Test methodology

TEST PERFORMED	Elemental Impurities Analysis	INSTRUMENT	ICP-MS
SAMPLE PREP	HNO3 / H2O2 matrix	CALIBRATION	Multi-element standard curve
INTERNAL STANDARD	Sc, Ge, In, Bi	MATERIAL TYPE	Raw Material (Research Use)

Elemental impurities results

Element	Result (ppm)	Acceptance limit (ppm)	Status
Lead (Pb)	< 0.5	≤ 10	PASS
Arsenic (As)	< 0.15	≤ 1.5	PASS
Cadmium (Cd)	< 0.05	≤ 0.5	PASS
Mercury (Hg)	< 0.3	≤ 3	PASS

Method suitability - spike recovery

Element	Spike level	Recovery	Criteria
Lead (Pb)	5 ppm	98%	70-150%
Arsenic (As)	0.75 ppm	95%	70-150%
Cadmium (Cd)	0.25 ppm	95%	70-150%
Mercury (Hg)	1.5 ppm	91%	70-150%

Quality control and interpretation

Quality Control: Method Blank: Pass | CCV: Pass | Duplicate RPD: < 20%

Lead, arsenic, cadmium and mercury are below their stated acceptance limits. The method blank and continuing calibration verification passed, duplicate RPD is below 20%, and spike recoveries are within criteria. The sample meets the stated elemental-impurity acceptance criteria. Authorised laboratory review is complete.

Lab Director: Bhavrat Singh | Report number: ONE-TB10-2026



BACTERIAL ENDOTOXIN ANALYSIS

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Kinetic LAL, USP <85>

Client and sample information

CLIENT	One Aminos LLC	DATE ISSUED	07/24/2026
PRODUCT NAME	TB-500	STRENGTH	10 mg
BATCH / LOT	040845	LABORATORY SAMPLE ID	ONE-TB10
VERIFICATION CODE	RD52ENDD	CONDITION	Lyophilized powder

Test methodology

TEST PERFORMED	Quantitative Bacterial Endotoxin Test	COMPENDIAL REFERENCE	USP <85>
ASSAY TYPE	Kinetic Chromogenic LAL	DETECTION WAVELENGTH	405 nm
DETECTION RANGE	0.01-1.0 EU/mL	ENDOTOXIN STANDARD	E. coli O111:B4
DILUTION VOLUME	2.0 mL	MATRIX	LAL Reagent Water

Quantitative results

Parameter	Result
Endotoxin Level	< 0.20 EU/mL
Acceptance Limit	≤ 0.5 EU/mL
Sample CV (%)	2.8%
Spike CV (%)	3.6%
Spike Recovery (%)	98%
Final Determination	PASS

Controls

Control	Expected	Observed	Status
Positive Control	Detectable	As expected	PASS
Negative Control	No signal	As expected	PASS

FINAL DETERMINATION: PASS

Interpretation and review

The endotoxin result is below the 0.5 EU/mL acceptance limit. Positive and negative controls performed as expected. The sample meets the stated bacterial-endotoxin criterion. Authorised laboratory review is complete.

Laboratory authorisation

Lab Director: Bhavrat Singh

Authorised signature: 

Date issued: 07/24/2026