



CERTIFICATE OF ANALYSIS

REPORT ONE-TB10-091826
VERIFICATION CODE WMMRARMV
VERIFY AT UNITEDLABORATORIES.ORG

Client and sample information

CLIENT	One Aminos LLC	PRODUCT	TB-500
ACTIVE IDENTITY	Thymosin beta-4	LABELED CONTENT	10 mg
LABORATORY SAMPLE ID	ONE-TB10	REPORT NUMBER	ONE-TB10-091826
BATCH / LOT	ONE-TB10-091826	DATE CERTIFIED	09/18/2026
SAMPLE MATRIX	Lyophilized Powder	APPEARANCE	Conforms
VERIFICATION CODE	WMMRARMV	OVERALL RESULT	PASS

7X certificate summary

Test	Method	Specification	Result	Status
Identity	LC-MS	C212H350N56O78S	Thymosin beta-4	PASS
Purity	RP-HPLC	>98%	99.745%	PASS
Net content	Quantitative HPLC	Report result	12.57 mg	REPORTED
Vial conformity	HPLC conformity	Consistent vials	2 vials conform	PASS
Heavy metals	ICP-MS	Analyte limits	Below limits	PASS
Sterility	Rapid sterility	No growth	No growth	PASS
Endotoxin	USP <85>	<= 0.5 EU/mL	< 0.08 EU/mL	PASS

OVERALL RESULT: PASS - REVIEWED AND APPROVED FOR ISSUE



IDENTITY, PURITY AND CONTENT

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METHOD	RP-HPLC	COLUMN	C18
DETECTOR	DAD	DETECTION	214 nm

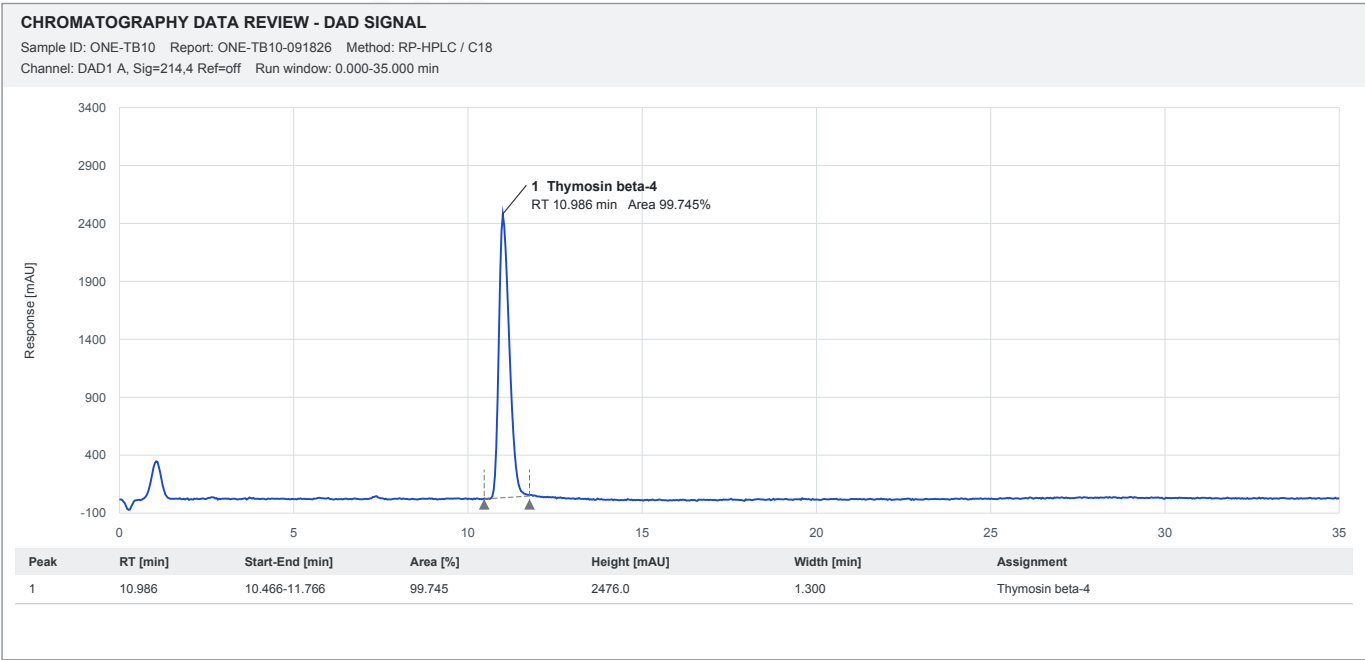
Analytical results

Analyte	Specification	Result	Unit	Status
Peptide purity (HPLC)	>98%	99.745	%	PASS
Net content	Report result	12.57	mg	REPORTED
Identity (LC-MS)	C212H350N56O78S	Thymosin beta-4	-	PASS

HPLC conformity testing

Sample	Purity	Net content	Identity	Result
Vial 1	99.702%	12.53 mg	Confirmed	PASS
Vial 2	99.789%	12.61 mg	Confirmed	PASS
Conformity mean	99.745%	12.57 mg	-	-

HPLC chromatogram





MICROBIOLOGY AND ENDOTOXIN

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Sterility screening

Test	Method	Specification	Result	Status
Bacteria (aerobic/anaerobic)	Rapid sterility	No growth	No growth	PASS
Fungi / yeast	Rapid sterility	Not detected	Not detected	PASS

INCUBATION PERIOD	2 days	TEMPERATURE	30-35 °C
SAMPLE MATRIX	Lyophilized Powder	FINAL DETERMINATION	PASS

STERILITY RESULT: NO GROWTH / NOT DETECTED - PASS

Bacterial endotoxin - USP <85>

TEST PERFORMED	Quantitative bacterial endotoxin	ASSAY	Kinetic LAL
DETECTION RANGE	0.01-1.0 EU/mL	STANDARD	E. coli O111:B4
DILUTION VOLUME	2.0 mL	MATRIX	LAL reagent water
SPECIFICATION BASIS	Supplied acceptance criterion	COMPENDIAL REFERENCE	USP <85>

Parameter	Result
Endotoxin level	< 0.08 EU/mL
Acceptance limit	<= 0.5 EU/mL
Sample CV	3.2%
Spike CV	3.4%
Spike recovery	94%
Final determination	PASS

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

ENDOTOXIN RESULT: PASS



HEAVY METALS AND AUTHORISATION

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Elemental impurities - ICP-MS

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 and quality controls

SAMPLE PREPARATION	HNO3 / H2O2 matrix	CALIBRATION	Multi-element standard curve
INTERNAL STANDARDS	Sc, Ge, In, Bi	METHOD BLANK	PASS
CONTINUING CALIBRATION	PASS	DUPLICATE RPD	< 20%
SPECIFICATION BASIS	Supplied reporting limits	INSTRUMENT	ICP-MS

Element	Spike level	Recovery	Criterion
Lead	5 ppm	98%	70-150%
Arsenic	0.75 ppm	102%	70-150%
Cadmium	0.25 ppm	95%	70-150%
Mercury	1.5 ppm	91%	70-150%

ELEMENTAL IMPURITIES: ALL ANALYTES BELOW ACCEPTANCE LIMITS - PASS

Laboratory authorisation

Approved and authorised for issue

Bhavrat Singh
Owner, Analyst and Head Lab Director

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Batch / lot: ONE-TB10-091826
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Date certified: 09/18/2026



Authorised signature - Bhavrat Singh