PrymaLab
PRYMALAB ANALYTICAL · IN-HOUSE LABORATORY
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CERTIFICATE NO.
PL-26-00321
VERIFICATION KEY
SQVBXNXM
Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE

Thymalin 10 mg

Lot **PL-2610-208** · Lyophilized powder · Label claim **10 mg per vial**

TESTED IN-HOUSE BY PRYMALAB
In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL-2610-208	2026-10-07	2026-10-08	2026-10-23
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-10-07	276 / 3	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND
Thymalin
Calf thymus polypeptide fraction (Khavinson/Morozov extract); no single sequence

CAS NUMBER
79621-14-0

MOLECULAR FORMULA
Not applicable (mixture)

THEORETICAL MASS (AVG.)
n/a (complex peptide mixture)

STRUCTURE
thymus polypeptide complex

PURITY · RP-HPLC, AREA %
99.30%
Specification ≥ 99.0 % • area % of the main RP-HPLC band

IDENTITY · PEPTIDE MAP
Match
LC-MS peptide map matches the reference

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Identity (peptide map)	LC-MS peptide map	Matches reference	Matches reference	**PASS**
Purity (main band)	RP-HPLC, UV 214 nm, area %	≥ 99.0 %	99.30 %	**PASS**
Water content	Karl Fischer	≤ 5.0 %	2.77 %	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.046 EU/mg	**PASS**
Sterility	USP <71>, 14-day	No growth	No growth	**PASS**

1 HPLC CHROMATOGRAM

Data file: PL-2610-208-HPLC.raw · Column C18, 150 × 4.6 mm · UV 214 nm

Complex peptide mixture: main-band purity reported as area %; see page 2.

Main-band purity as recorded in the lot-release data (complex peptide mixture; individual bands are not assigned and no retention times were exported, so no peak plot is drawn). Instrument data retained in PL-2610-208-HPLC.raw.

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · PL-2610-208-HPLC.RAW

INSTRUMENT
Waters Alliance e2695

DATA SYSTEM
Empower 3

DETECTOR
UV absorbance

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

MOBILE PHASE A
0.1 % TFA in water

MOBILE PHASE B
0.1 % TFA in MeCN

GRADIENT
5–95 % B over 25 min (linear)

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
40 °C

INJECTION VOLUME
10 µL

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	95	5
25.0	5	95

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	—	—	**99.30**
2	—	—	0.70
Total		—	100.00

Peaks: 1 main band; 2 all other bands (by difference) · main-band area % from the lot-release data · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters SQD

IONIZATION / MODE
ESI, positive

METHOD
LC-MS peptide map vs reference

RESULT
Peptide map matches reference

DATA FILE
PL-2610-208-MS.d

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content (Karl Fischer)	PrymaLab Analytical	2026-10-08	—
Endotoxin (LAL, kinetic)	PrymaLab Analytical	2026-10-08	—
Sterility (USP <71>, day-14 read-out)	PrymaLab Analytical	2026-10-22	—

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-10-23

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-23

M. Phelps
Lab Director · approved for release
Date: 2026-10-23

Raw data retained at: Empower 3, project PL-2610, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00321 and key SQVBXNXM at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.