

## Thymalin - 10mg

Tested for: Lexar

lab@domain.com

COA #: COA-2026-BUN34R  
Lot Number: TMN0001  
Accession #: ACC-2026-69631  
Labeled Content: 10mg

Analysis Date: 08/03/2026  
Appearance: Good  
Sample Matrix: Lyophilized  
Volume: 3mL  
Date Received: 07/31/2026



Thymalin 10mg- TMN0001

Method: Full QC Panel

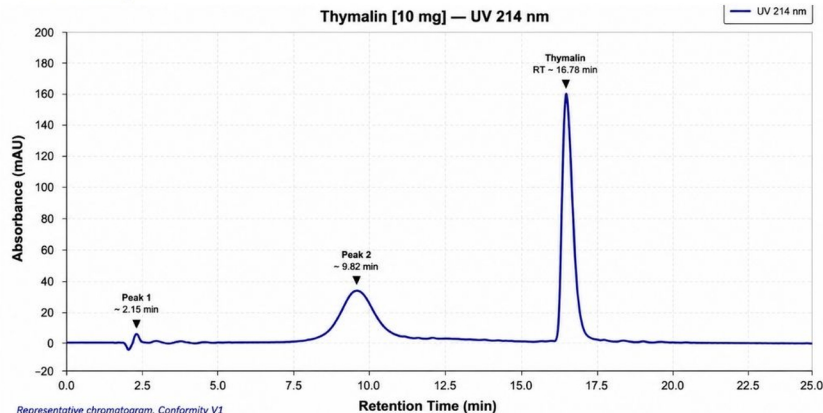
Identity  
Thymalin

Peptide Purity  
**99.81%**  Fentanyl Free

### Purity, Identity & Quantitation (HPLC)

| Analyte               | Specification                | Result       | Unit | Status |
|-----------------------|------------------------------|--------------|------|--------|
| Peptide Purity (HPLC) | >= 95.0%                     | 99.81%       | %    | PASS   |
| Net Peptide Content   | Report Only                  | 10.50        | mg   | N/A    |
| Identity (HPLC-RTM)   | Thymalin                     | Confirmed    | -    | PASS   |
| Fentanyl Screen       | Immunoassay, 50 ng/mL cutoff | Not Detected | -    | PASS   |

### HPLC Chromatogram



### HPLC Conformity Testing Results (2 samples tested)

| Sample        | Purity  | NPC        | ID        | Result |
|---------------|---------|------------|-----------|--------|
| Dedicated V0  | 99.81%  | 10.50 mg   | Confirmed | PASS   |
| Conformity V1 | 99.45%  | 10.35 mg   | Confirmed | PASS   |
| Mean          | 99.38%  | 10.43 mg   | —         | —      |
| Std Dev       | 0.0850% | 0.01700 mg | —         | —      |

  
Harmon Lee

Reviewed and approved by:

COA #: COA-2026-BUN34R

Issued: 8/3/2026

Heavy Metals Analysis (ICP-MS)

| Test          | Specification | Result       | Status |
|---------------|---------------|--------------|--------|
| Arsenic (As)  | NMT 1.5 ppm   | Not Detected | PASS   |
| Cadmium (Cd)  | NMT 0.5 ppm   | Not Detected | PASS   |
| Lead (Pb)     | NMT 1.0 ppm   | Not Detected | PASS   |
| Mercury (Hg)  | NMT 1.5 ppm   | Not Detected | PASS   |
| Chromium (Cr) | NMT 10.0 ppm  | Not Detected | PASS   |

Sterility Testing (PCR)

| Test            | Specification | Result    | Status |
|-----------------|---------------|-----------|--------|
| Sterility (PCR) | No Growth     | No Growth | PASS   |

Endotoxin Testing (USP <85>)

| Test                                                                                                                                                                              | Specification | Result         | Status   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------|
| Endotoxin (USP <85>)                                                                                                                                                              | Report Result | NMT 0.05 EU/mL | Reported |
| About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. |               |                |          |

Notes & Methodology

1. Date Tested: 08/03/2026. Methods: Purity, Identity & Quantitation (HPLC).
2. The sample was confirmed to be Thymalin by HPLC. Identification by chromatographic retention time comparison with a reference standard.
3. Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
4. Endotoxin tested per USP <85> kinetic turbidimetric method. Acceptance criteria per client specification.
5. Peptide purity determined by RP-HPLC area normalization at 214 nm. Value represents the percentage of the target peptide relative to all peptide-related peaks. Non-peptide process-related impurities, if detected, are excluded from the calculation.



Harmon Lee

Reviewed and approved by:

COA #: COA-2026-BUN34R

Issued: 8/3/2026