

# CERTIFICATE OF ANALYSIS

Public sample verification record. Live customer batches require QA confirmation before file release.

PRODUCT NAME

**Thymalin**

MOLECULAR FORMULA

**C33H54N12O15**

MOLECULAR WEIGHT

**858.9 g/mol**

CAS NO.

**63958-90-7**

COA NO.

**COA-PS-THYMALIN-2606-039**

BATCH NO.

**PS-THYMALIN-2606-039**

SPECIFICATION

**10 mg / vial**

MFG. DATE

**18 June 2026**

RETEST DATE

**18 June 2028**

STORAGE

**-20 °C, protect from light**

| TEST ITEM                    | ACCEPTANCE CRITERIA  | RESULT                                | STATUS |
|------------------------------|--|---------------------------------------|--------|
| Appearance                   | White to off-white lyophilized powder                          | White to off-white lyophilized powder | Pass   |
| Identification (LC-MS)       | Consistent with reference standard or controlled identity file | Conforms                              | Pass   |
| Peptide Purity (RP-HPLC)     | NLT 98.0%  | 99.72%                                | Pass   |
| Related Impurities (HPLC)    | Each impurity NMT 1.0%; total NMT 2.0%                         | Each <= 0.18%; total 0.29%            | Pass   |
| Mass Spectrum (ESI-MS)       | 858.9 Da theoretical   | 858.9 Da                              | Pass   |
| Peptide Content (Assay)      | NLT 90.0% on dry basis   | 96.8%                                 | Pass   |
| Water Content (Karl Fischer) | NMT 7.0%   | 1.8%                                  | Pass   |
| Residual Solvents (GC)       | ACN NMT 410 ppm; DCM NMT 600 ppm; MTBE NMT 5000 ppm            | ACN 311 ppm; others N.D.              | Pass   |
| Heavy Metals (as Pb)         | NMT 10 ppm   | < 2 ppm                               | Pass   |
| Bacterial Endotoxins         | NMT 1 EU/mg  | < 0.05 EU/mg                          | Pass   |
| Microbial Limits             | TAMC NMT 100 cfu/g; TYMC NMT 100 cfu/g                         | TAMC < 20; TYMC < 20 cfu/g            | Pass   |
| Fill Content                 | Catalog fill +/-10%  | 10 mg / vial                          | Pass   |

## QA APPROVAL

Testing completed 18 June 2026

*Kevin Fang*

Quality Assurance Reviewer - Kevin Fang · 20 June 2026

## DOCUMENT CONTROL

### RELEASE DECISION

**Approved for sample verification**

### DOCUMENT STATUS

**Demo record - QA confirmation required**

Sample notice: This public record demonstrates the PeptideSource verification format. Current customer lots require QA confirmation, order context, or controlled access before full release files are displayed.