



**USA Prime Labs**  
Substance Testing and COA  
We test the research before you do.



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## CERTIFICATE OF ANALYSIS

Identity, purity and safety panel

Report No. UPL-2026-0212

Issued 2026-08-18

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### SAMPLE

Compound **TB-500 (Thymosin Beta-4)**  
Form Lyophilized powder  
Label claim 5 mg / vial  
Lot / batch TB-9260  
Sample ID UPL-2026-0212  
Vials received 5

### CLIENT AND CHAIN OF CUSTODY

Client **USA Prime Peptides**  
Client reference UPP-1407  
Received 2026-08-14  
Testing period 2026-08-17 to 2026-09-20  
Storage 2-8 °C  
Panel Full panel

| TEST                               | METHOD       | RESULT                                                                     | SPECIFICATION                       | STATUS      |
|------------------------------------|--------------|----------------------------------------------------------------------------|-------------------------------------|-------------|
| <b>Identity</b><br>Chemistry       | LC-MS        | <b>Conforms</b><br>Observed [M+H] <sup>+</sup> consistent with theoretical | Matches reference                   | <b>PASS</b> |
| <b>Purity</b><br>Chemistry         | HPLC-UV      | <b>99.88%</b>                                                              | Report value                        | <b>PASS</b> |
| <b>Net content</b><br>Chemistry    | Gravimetric  | <b>5.05 mg</b><br>101% of label claim                                      | 90 - 110 % of label claim           | <b>PASS</b> |
| <b>Water content</b><br>Chemistry  | Karl Fischer | <b>2.19%</b>                                                               | <= 10.0 %                           | <b>PASS</b> |
| <b>Residual solvents</b><br>Safety | GC-MS        | <b>Pass</b><br>Acetonitrile 77 ppm; DMF not detected                       | Within ICH Q3C limits               | <b>PASS</b> |
| <b>Endotoxin</b><br>Safety         | LAL kinetic  | <b>0.11 EU/mg</b><br>Spike recovery 104%                                   | <= 1.0 EU/mg                        | <b>PASS</b> |
| <b>Heavy metals</b><br>Safety      | ICP-MS       | <b>Pass</b><br>As 0.124 · Cd 0.033 · Pb 0.051 · Hg 0.016 ug/g              | As 1.5, Cd 0.2, Pb 0.5, Hg 0.3 ug/g | <b>PASS</b> |
| <b>Bioburden</b><br>Safety         | USP <61>     | <b>TAMC &lt;10 CFU/g</b><br>TYMC <10 CFU/g                                 | TAMC <= 100, TYMC <= 10 CFU/g       | <b>PASS</b> |
| <b>Sterility</b><br>Safety         | USP <71>     | <b>No growth</b>                                                           | No growth                           | <b>PASS</b> |

**OVERALL: PASS** All tests meet specification

**99.88%**

*Jane Rivera*

**Analyst**  
Jane Rivera, Senior Analyst  
Signed Aug 20, 2026

*Dr. Mark Chen, MD*

**QA Reviewer**  
Mark Chen, QA Director  
Approved Aug 20, 2026



**Verify this certificate**  
Report UPL-2026-0212

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