

## Thymosin Alpha-1 ( $T\alpha 1$ ) Immune Modulator

Repair & Recovery • 10mg • Research Use Only

### 1. SAMPLE IDENTIFICATION

|              |                                                   |                 |                    |
|--------------|---------------------------------------------------|-----------------|--------------------|
| Product      | Thymosin Alpha-1 ( $T\alpha 1$ ) Immune Modulator | Batch / Lot no. | GP26-2086          |
| Category     | Repair & Recovery                                 | Strength        | 10mg               |
| Presentation | Research Vial                                     | Dosage form     | Lyophilised Powder |

### 2. IDENTITY CONFIRMATION

|                               |                   |                                |                                |
|-------------------------------|-------------------|--------------------------------|--------------------------------|
| Method                        | LC-MS (ESI-Q-TOF) | Result                         | Conforms to reference standard |
| [M+H] <sup>+</sup> observed   | 3155.5 m/z        | [M+H] <sup>+</sup> theoretical | 3155.6 m/z                     |
| [M+2H] <sup>2+</sup> observed | 1578.3 m/z        | Mass deviation                 | -0.1 Da                        |

### 3. PURITY AND QUANTITATIVE CONTENT

|                        |                                 |                           |                 |
|------------------------|---------------------------------|---------------------------|-----------------|
| Technique              | UPLC                            | Method                    | UPLC-UV, 214 nm |
| Chromatographic purity | 99.3 % (area normalisation)     | Content, % of label claim | 99.6 %          |
| Measured content       | 9.96 mg/vial (label claim 10mg) |                           |                 |

### 4. ANALYTICAL DATA

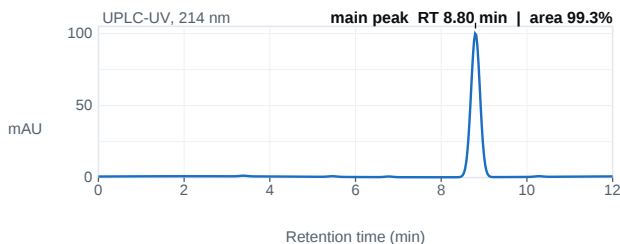


Fig. 1 — UPLC chromatogram; main peak 8.80 min, 99.3% area.

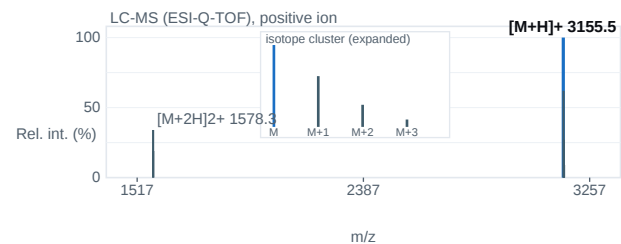


Fig. 2 — ESI-Q-TOF mass spectrum; base peak [M+H]<sup>+</sup> 3155.5 m/z.

**RESULT**      **PASS — Identity conforms; chromatographic purity 99.3%**

### 5. AUTHORISATION AND VERIFICATION

|              |                |                     |                                   |
|--------------|----------------|---------------------|-----------------------------------|
| Analyst      | Dr. L. Chen    | Approved (QA)       | Dr. P. Achebe                     |
| Date of test | 23 August 2026 | Date of manufacture | 5 August 2026                     |
| Expiry       | 5 August 2029  | Laboratory          | Puralytix Analytical Laboratories |

#### Verify this certificate

Report ID: **GP26-2086**

Verification key: **X95E-FPRV**

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Enter the report ID and verification key on the page above, or scan the QR code, to confirm this certificate is genuine.



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