

CERTIFICATE OF ANALYSIS

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PRODUCT IDENTIFICATION

|                     |                                       |
|---------------------|---------------------------------------|
| Product Name        | GHRH-TS Analytical Standard           |
| Catalog No. (SKU)   | TSM10                                 |
| Lot / Batch No.     | ZBV-TSM10-20260602                    |
| Quantity per Vial   | 10 mg                                 |
| Manufacture Date    | 2026-06-02                            |
| Analysis Date       | 2026-06-06                            |
| Expiration Date     | 2028-06-06                            |
| Physical Appearance | White to off-white lyophilized powder |
| Material Form       | Lyophilized solid                     |

MOLECULAR CHARACTERIZATION

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Chemical Name / Synonyms | GHRH-TS Analytical Standard                                                                             |
| Molecular Formula        | Peptide conjugate (empirical formula on file)                                                           |
| Molecular Weight (Calc.) | See COA                                                                                                 |
| Primary Structure        | Structure assigned by LC-MS/MS peptide mapping and comparison to qualified in-house reference standard. |
| CAS Registry No.         | Assigned per internal reference catalog                                                                 |

SUMMARY OF ANALYTICAL RESULTS

| Analytical Test              | Specification             | Result   | Method Reference          |
|------------------------------|---------------------------|----------|---------------------------|
| HPLC Purity (area %)         | >= 98.0%                  | 99.1%    | In-house HPLC / USP <621> |
| Identity Confirmation (MS)   | Consistent with reference | Conforms | ESI-MS / LC-MS            |
| Water Content (Karl Fischer) | <= 5.0%                   | 2.16%    | USP <921> Method Ic       |
| Acetate / Counter-ion        | Report value              | 6.58%    | Ion Chromatography        |
| Appearance                   | White to off-white powder | Conforms | Visual inspection         |

Qualified as an in-vitro analytical reference standard only. Not for human, veterinary, diagnostic, or therapeutic use.

HPLC PURITY ASSAY - CHROMATOGRAPHIC CONDITIONS

|              |                                                                       |
|--------------|-----------------------------------------------------------------------|
| Column       | C18 reversed-phase, 4.6 x 250 mm, 5 um, 300 A pore size               |
| Mobile Phase | A: 0.1% TFA/H2O; B: 0.1% TFA/ACN; linear gradient 5-65% B over 45 min |
| Flow Rate    | 1.0 mL/min                                                            |
| Detection    | UV 214 nm with in-line ESI-MS identity check                          |
| Main Peak RT | 13.32 min                                                             |

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| Main Peak Area           | 99.1%                                               |
| Total Related Substances | 0.90%                                               |
| System Suitability       | N >= 2000 plates; tailing factor <= 1.5 (USP <621>) |

#### MASS SPECTROMETRY IDENTITY CONFIRMATION

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Ionization Mode      | ESI-Positive                                        |
| Theoretical Mass     | See COA                                             |
| Observed Mass (M+H)+ | See COA                                             |
| Mass Delta           | +/- 0.04 Da                                         |
| MS/MS Fragmentation  | Major b/y series consistent with assigned structure |
| Identity Conclusion  | Conforms - observed mass within method tolerance    |

#### SUPPLEMENTAL QUALITY ATTRIBUTES

| Test Parameter        | Acceptance Criteria     | Result                                 | Technique    |
|-----------------------|-------------------------|----------------------------------------|--------------|
| Bacterial Endotoxin   | <= 0.25 EU/mg           | < 0.10 EU/mg (kinetic chromogenic LAL) | USP <85> LAL |
| Heavy Metals (screen) | <= 10 ppm               | < 5 ppm combined (ICP-MS screen)       | ICP-MS       |
| Residual Solvents     | ICH Q3C compliant       | Complies with ICH Q3C (GC headspace)   | GC Headspace |
| Related Substances    | Single impurity <= 0.5% | Conforms                               | HPLC         |
| Peptide Content (UV)  | Report value            | 98.6%                                  | UV 214 nm    |

#### STORAGE & HANDLING

|                                            |                                                                                                                                                                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lyophilized / Unopened Solid               | Unopened lyophilized solid at 20-25 deg C (USP controlled room temperature; excursions 15-30 deg C). Protect from light in the original carton. Do not freeze. (EGRIFTA SV and EGRIFTA WR labels)                                        |
| After Reconstitution (Analytical Solution) | EGRIFTA SV (sterile water): use immediately after mixing; discard unused solution; do not refrigerate or freeze. EGRIFTA WR (bacteriostatic water label): keep mixed solution at 20-25 deg C up to 7 days; do not refrigerate or freeze. |
| Handling                                   | This solid is stored at controlled room temperature. Protect from light. Do not shake. Do not freeze the unopened vial. After mixing, do not refrigerate or freeze the solution.                                                         |
| Stability Note                             | Use by the labeled expiration when stored sealed at 20-25 deg C protected from light. After mixing: discard unused SV solution immediately; discard WR solution 7 days after mixing.                                                     |

#### RESEARCH USE ONLY — REGULATORY NOTICE

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