

## DSIP (Delta Sleep-Inducing Peptide)

Cognitive & Neurological • 5mg • Research Use Only

### 1. SAMPLE IDENTIFICATION

|              |                                     |                 |                    |
|--------------|-------------------------------------|-----------------|--------------------|
| Product      | DSIP (Delta Sleep-Inducing Peptide) | Batch / Lot no. | GP26-2093          |
| Category     | Cognitive & Neurological            | Strength        | 5mg                |
| 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   | 2537.1 m/z        | [M+H] <sup>+</sup> theoretical | 2537.5 m/z                     |
| [M+2H] <sup>2+</sup> observed | 1269.3 m/z        | Mass deviation                 | -0.4 Da                        |

### 3. PURITY AND QUANTITATIVE CONTENT

|                        |                                |                           |                    |
|------------------------|--------------------------------|---------------------------|--------------------|
| Technique              | HPLC                           | Method                    | RP-HPLC-UV, 214 nm |
| Chromatographic purity | 99.7 % (area normalisation)    | Content, % of label claim | 99.0 %             |
| Measured content       | 4.95 mg/vial (label claim 5mg) |                           |                    |

### 4. ANALYTICAL DATA

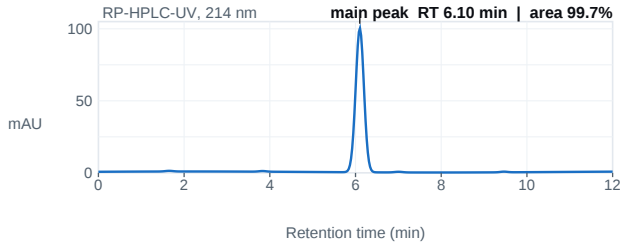


Fig. 1 — HPLC chromatogram; main peak 6.10 min, 99.7% area.

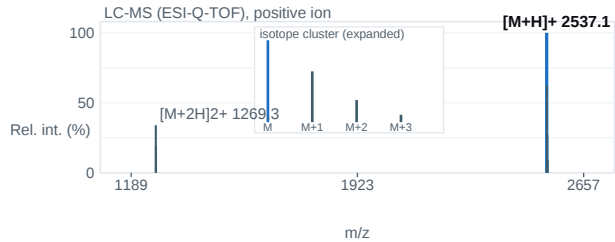


Fig. 2 — ESI-Q-TOF mass spectrum; base peak [M+H]<sup>+</sup> 2537.1 m/z.

#### RESULT

**PASS — Identity conforms; chromatographic purity 99.7%**

### 5. AUTHORISATION AND VERIFICATION

|              |                |                     |                                   |
|--------------|----------------|---------------------|-----------------------------------|
| Analyst      | Dr. L. Chen    | Approved (QA)       | Dr. N. Kowalski                   |
| Date of test | 22 August 2026 | Date of manufacture | 5 August 2026                     |
| Expiry       | 5 August 2029  | Laboratory          | Puralytix Analytical Laboratories |

#### Verify this certificate

Report ID: **GP26-2093**

Verification key: **X3UY-UWJZ**

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