




**VERIFIED CERTIFICATE** Status: **PASSED ALL TESTS**

| PURITY        | NET CONTENT    | IDENTITY    | STERILITY   | ENDOTOXIN   | HEAVY METALS |
|---------------|----------------|-------------|-------------|-------------|--------------|
| <b>99.14%</b> | <b>9.59 mg</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b>  |

**SAMPLE**

|                   |                                           |
|-------------------|-------------------------------------------|
| Client / Brand    | <b>Peptora</b>                            |
| Product           | <b>Melanotan-1 (MT-1 / Afamelanotide)</b> |
| Batch number      | <b>MEL-260612-B2</b>                      |
| Product form      | <b>Lyophilized powder</b>                 |
| Labeled quantity  | <b>10mg / vial</b>                        |
| Molecular formula | <b>C78H111N21O19</b>                      |
| CAS number        | <b>75921-69-6</b>                         |
| Cap color         | <b>Black</b>                              |

**RESULTS**

|                                                          |                     |
|----------------------------------------------------------|---------------------|
| Purity                                                   | <b>99.14%</b>       |
| Net content                                              | <b>9.59 mg</b>      |
| Identity LC-MS                                           | <b>Confirmed</b>    |
| Endotoxin (LAL)                                          | <b>0.34 EU/mL</b>   |
| Sterility                                                | <b>No growth</b>    |
| Heavy metals                                             | <b>&lt; 0.1 ppm</b> |
| As 0.08 ppm · Cd 0.043 ppm · Pb 0.071 ppm · Hg 0.026 ppm |                     |

**ADDITIONAL TESTS**

|                            |                     |
|----------------------------|---------------------|
| Fentanyl Presence Analysis | <b>Not detected</b> |
|----------------------------|---------------------|

**BATCH CONFORMITY**

| VIAL                 | PURITY        | NET CONTENT    |
|----------------------|---------------|----------------|
| V-01                 | 98.81%        | 9.41 mg        |
| V-02                 | 99.42%        | 9.33 mg        |
| V-03                 | 99.2%         | 10.04 mg       |
| <b>Batch average</b> | <b>99.14%</b> | <b>9.59 mg</b> |

**HPLC CHROMATOGRAM**


| METHOD                           | COLUMN                           | DETECTION        | RETENTION TIME  |
|----------------------------------|----------------------------------|------------------|-----------------|
| <b>RP-HPLC (USP &lt;621&gt;)</b> | <b>C18, 4.6 × 150 mm, 3.5 μm</b> | <b>UV 214 nm</b> | <b>7.79 min</b> |