

CERTIFICATE OF ANALYSIS

1. PRODUCT INFORMATION

| | |
|--------------------|---|
| Product Name | Tirzepatide Peptide |
| CAS Number | 2023788-19-2 |
| Molecular Formula | C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈ |
| Form | Lyophilized powder |
| Molecular Weight | 4813.45 Da |
| Batch / Lot Number | PE20260306 |
| Manufacturing Date | 03/06/2026 |
| Report Date | 03/18/2026 |
| Retest Date | 03/05/2028 |
| Quantity | 10 mg |
| Storage Conditions | Light-proof, sealed, stored at -20°C ±5°C |

2. GENERAL PROPERTIES

| No. | Test Parameter | Specification | Result | Status |
|-----|----------------------------|---------------------------|----------|--------|
| 2.1 | Appearance | White to off-white powder | Conforms | Pass |
| 2.2 | Solubility | Freely soluble in water | Conforms | Pass |
| 2.3 | Water Content | NMT 7.0% | 1.8% | Pass |
| 2.4 | pH | 6.0 - 9.0 | 7.6 | Pass |
| 2.5 | Acetic Acid | NMT 0.5% | N.D. | Pass |
| 2.6 | TFA (Trifluoroacetic Acid) | NMT 0.5% | N.D. | Pass |
| 2.7 | Sodium Ion | NMT 5.0% | 1.6% | Pass |

3. RESIDUAL SOLVENTS

| No. | Test Parameter | Specification | Result | Status |
|-----|-----------------------------|---------------|--------|--------|
| 3.1 | Methanol (Methyl Alcohol) | NMT 0.3% | 0.003% | Pass |
| 3.2 | Methylene Dichloride | NMT 0.06% | N.D. | Pass |
| 3.3 | Acetonitrile | NMT 0.041% | 0.007% | Pass |
| 3.4 | N,N-Dimethylformamide (DMF) | NMT 0.088% | N.D. | Pass |

4. RELATED SUBSTANCES (HPLC)

| No. | Test Parameter | Specification | Result | Status |
|-----|-------------------------|---------------|--------|--------|
| 4.1 | Maximum Single Impurity | NMT 0.5% | 0.11% | Pass |
| 4.2 | Total Impurities | NMT 2.0% | 0.64% | Pass |

| | | | | |
|-----|--|-----------|--------|-------------|
| 4.3 | Purity (by HPLC) | NLT 98.0% | 99.30% | Pass |
| 4.4 | High-Molecular Polymer (Individual) | NMT 0.3% | N.D. | Pass |
| 4.5 | High-Molecular Polymer (Total) | NMT 0.8% | N.D. | Pass |

5. BIOLOGICAL TESTING

| No. | Test Parameter | Specification | Result | Status |
|-----|-------------------------------|---------------|-------------|-------------|
| 5.1 | Bacterial Endotoxins | NMT 5 EU/mg | Conforms | Pass |
| 5.2 | Total Aerobic Bacteria | NMT 100 cfu/g | NMT 3 cfu/g | Pass |
| 5.3 | Total Molds and Yeasts | NMT 100 cfu/g | NMT 1 cfu/g | Pass |

6. ASSAY

| No. | Test Parameter | Specification | Result | Status |
|-----|------------------------|----------------|--------|-------------|
| 6.1 | Assay | 95.0% - 105.0% | 99.30% | Pass |
| 6.2 | Peptide Content | NLT 80.0% | 95.90% | Pass |

7. CONCLUSION

The product tested complies with the specifications.

--- End of Certificate ---