

CERTIFICATE OF ANALYSIS

| | | | |
|---------------------|-----------------------|--------------------|-------------------|
| Product Name | | Semaglutide | |
| Batch No. | SL230902 | Mfg. Date | 2023.09.14 |
| Quantity | 100g | Test Date | 2023.09.15 |
| Packaging | Drum or carton | Retest Date | 2025.09.13 |

ANALYTICAL METHOD:

In House

| Items | Specification | Results |
|--------------------------------------|--|-------------------------|
| Characteristic | White to off white powder or loose mass | Complies |
| Solubility | Soluble in water | Complies |
| Identification | HPLC | Complies |
| PH | 7.0-9.0 (C=5mg/ml) | 8.0 |
| Clarity and color of solution | Colorless, transparent liquid | Complies |
| Water content | ≤10.0% | 4.4% |
| Amino acid ratio | Asp | 0.9-1.1 |
| | Ser | 2.1-3.9 |
| | Glu | 4.5-5.5 |
| | Gly | 3.6-4.4 |
| | His | 0.9-1.1 |
| | Arg | 1.8-2.2 |
| | Thr | 1.8-2.2 |
| | Ala | 2.7-3.3 |
| | Aib | 0.7-1.3 |
| | Tyr | 0.9-1.1 |
| | Val | 1.8-2.2 |
| | Lys | 0.9-1.1 |
| | Ile | 0.9-1.1 |
| | Leu | 1.8-2.2 |
| Phe | 1.8-2.2 | |
| Trp | Detected Out | Detected Out |
| Sodium ion | 1.0%~3.0% | 2.3% |
| Carbonate | ≤0.50% | 0.15% |
| Acetate | ≤0.5% | Not Detected Out |
| Trifluoroacetic acid | ≤0.25% | Not Detected Out |

| | | | |
|--|----------------------------------|------------------------|------------------|
| Related substance I | IM60 | ≤0.2% | 0.08% |
| | IM01 | ≤0.2% | 0.08% |
| | IM59 | ≤0.2% | Not Detected Out |
| | IM28 | ≤0.2% | 0.07% |
| | Maximum non-specific impurity | ≤0.1% | 0.07% |
| | Total impurity | ≤2.0% | 0.26% |
| Related substance II | IM03 | ≤0.2% | 0.04% |
| Polymer | | ≤0.5% | 0.04% |
| Bacterial endotoxin | | <10EU/mg | Complies |
| Microbial Limit | Total number of aerobic bacteria | <10 ² cfu/g | Complies |
| | Total number of molds and yeasts | <10 ² cfu/g | Complies |
| | Escherichia coli | Not Detected Out | Not Detected Out |
| Peptide Assay | | ≥80.0% | 94.5% |
| Assay | | 95.0%~105.0% | 101.3 |
| CONCLUSION : THE PRODUCT CONFORMS TO IN HOUSE STANDARD | | | |
| STORAGE CONDITION : AVOID LIGHT, SEAL, STORE AT -25℃ ~ -15℃ | | | |

Approved by:

