

CERTIFICATE OF ANALYSIS

Product Name BPC157
CAS No. 137525-51-0
Molecular Formula C62H98N16O22
Molecular Weight 1419.56
Batch No. XR23120501-3
Date of Mfg Feb 14, 2025
Reference Standard Enterprise Standard
Retest Date Feb 13, 2027

| TEST | SPECIFICATION | RESULT |
|----------------------|-------------------------------------|----------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | ≤ 8.0% | 3.70% |
| Acetic Acid | ≤ 0.5% | 0.12% |
| Trifluoroacetic Acid | ≤ 0.5% | 0.01% |
| Peptide Purity | ≥ 98.0% | 99.08% |
| Related Substance | Total Impurities(%) ≤ 2.0% | "0.92% |
| | Largest Single Impurity(%) ≤ 1.0%" | 0.62%" |
| Bacterial Endotoxins | ≤ 10 EU/mg | <1 EU/mg |
| Assay | ≥ 90.0% | 93.93% |

Note: This product is for research or production use only. Not for direct human use.

CERTIFICATE OF ANALYSIS

| | |
|---------------------------|---------------------|
| Product Name | Thymosin β 4 |
| CAS No. | 77591-33-4 |
| Molecular Formula | C212H350N56O78S |
| Molecular Weight | 4963.44 |
| Batch No. | XR24091301-1 |
| Date of Mfg | Feb 13, 2025 |
| Reference Standard | Enterprise Standard |
| Retest Date | Feb 12, 2027 |

| TEST | SPECIFICATION | RESULT |
|----------------------|---|--------------------------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | $\leq 8.0\%$ | 4.40% |
| Acetic Acid | $\leq 5\%$ | 1.15% |
| Trifluoroacetic Acid | $\leq 0.5\%$ | Not Detected |
| Peptide Purity | $\geq 98.0\%$ | 99.39% |
| Related Substance | Total Impurities(%) $\leq 2.0\%$ | Total Impurities: 0.61% |
| | Largest Single Impurity(%) $\leq 1.0\%$ | Largest Single Impurity: 0.22% |
| Assay | $\geq 90.0\%$ | 94.24% |
| Bacterial Endotoxins | $\leq 10\text{EU/mg}$ | Conform |

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CERTIFICATE OF ANALYSIS

| | |
|---------------------------|---------------------|
| Product Name | Tesamorelin |
| CAS No. | 218949-48-5 |
| Molecular Formula | C221H366N72O67S |
| Molecular Weight | 5135.86 |
| Batch No. | XR25103101-6 |
| Date of Mfg | Mar 11, 2024 |
| Reference Standard | Enterprise Standard |
| Retest Date | Mar 10, 2026 |

| TEST | SPECIFICATION | RESULT |
|----------------------|---|--------------------------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | $\leq 8.0\%$ | 5.60% |
| Acetic Acid | $\leq 10.0\%$ | 4.62% |
| Trifluoroacetic Acid | $\leq 0.5\%$ | Not Detected |
| Peptide Purity | $\geq 98.0\%$ | 99.58% |
| Related Substance | Total Impurities(%) $\leq 2.0\%$ | Total Impurities: 0.42% |
| | Largest Single Impurity(%) $\leq 1.0\%$ | Largest Single Impurity: 0.19% |
| Bacterial Endotoxins | $\leq 10\text{EU/mg}$ | Conform |
| Assay | $\geq 85.0\%$ | 92.46% |

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CERTIFICATE OF ANALYSIS

| | | | |
|--------------------------|----------------|---------------------------|---------------------------------------|
| Product | Tirzepatide | Manufacturing Date | Mar. 05, 2025 |
| CAS No. | 2023788-19-2 | Expiration Date | Mar. 06, 2027 |
| Molecular Formula | C225H348N48O68 | Report Date | Mar. 07, 2025 |
| Molecular Weight | 4813.4514 | Standard | In house |
| Batch No. | P20250301 | Storage | Store at -20±5C, protected from light |
| Quantity | 1390.05g | | |

| TEST | SPECIFICATION | RESULT |
|--------------------------|---|-----------|
| Appearance | White to off white powder | Conforms |
| Solubility | Soluble in water | Conforms |
| Identification (HPLC) | Retention time matches reference solution | Conforms |
| pH | 6.0 to 9.0 | 8.0 |
| Water content (K.F) | 5.0% | 2.8% |
| Acetic acid | 0.5% | 0.1% |
| Trifluoroacetate ion | 0.25% | 0.01% |
| Sodium ion | 5.0% | 1.5% |
| Methanol | 3000 ppm | 40 ppm |
| Acetonitrile | 410 ppm | 200 ppm |
| N,N-Dimethylformamide | 880 ppm | ND |
| Max single impurity | 0.5% | 0.44% |
| Total impurities | 1.0% | 0.44% |
| Purity (HPLC) | 98.0% | 99.5% |
| Impurities > mol. mass | 0.30% | 0.06% |
| Microbial count | 10 cfu/g | < 1 cfu/g |
| Moulds & Yeasts | 10 cfu/g | < 1 cfu/g |
| Assay | 95.0% 105.0% | 100.4% |
| Assay of Peptide | 85.0% | 95.1% |
| Bacterial Endotoxin test | < 50 EU/mg | Conforms |

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CERTIFICATE OF ANALYSIS

Product Semaglutide
CAS No. 910463-68-2
Salt Type Na+
Manufacturing Date 2025.03.11

| TEST | SPECIFICATION | RESULT |
|-------------------------------|--|--------------------------|
| Appearance | White or off-white powder | Conforms |
| Solubility | Soluble in H ₂ O | Conforms |
| Amino Acid Analysis | Various ranges specified (His, Asp, Ala, Val, etc.) | Matches specified values |
| Purity (HPLC) | ≥98% | 99.31% |
| Mass Spectrum | 4113.58 ± 1.0 | 4113.80 |
| Clarity and color of solution | Clear and colorless | Conforms |
| Water | ≤ 8.0% | 2.5% |
| Trifluoroacetate ion | ≤ 0.1% | N.D |
| pH | 6.0 ~ 9.0 | 6.95 |
| Sodium ion | ≤ 4.0% | 1.2% |
| Phosphate ion | < 0.5% | N.D |
| Chloride ion | < 0.5% | N.D |
| Related Substances (HPLC) | Any individual impurity: ≤ 1.0% Total impurity: ≤ 2.0% | 0.30%, 0.70% |
| Residual Solvents | Methanol ≤ 0.3%, Isopropanol ≤ 0.5%, Acetonitrile ≤ 0.041%, etc. | Within limits |
| Peptide Assay | ≥ 85.0% | 95.60% |
| Bacterial Endotoxin | <10 EU/mg | Conforms |

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CERTIFICATE OF ANALYSIS

| | |
|---------------------------|---------------------|
| Product Name | Retatrutide |
| CAS No. | 2381089-83-2 |
| Molecular Formula | C221H342N46O68 |
| Molecular Weight | 4731.33 |
| Batch No. | XR25030501-2 |
| Date of Mfg | Mar 05, 2025 |
| Reference Standard | Enterprise Standard |
| Retest Date | Mar 04, 2027 |

| TEST | SPECIFICATION | RESULT |
|----------------------|---|--------------------------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | $\leq 8.0\%$ | 2.00% |
| Sodium ion | $\leq 5.0\%$ | 1.47% |
| Trifluoroacetic Acid | $\leq 0.5\%$ | Not Detected |
| Acetic Acid | $\leq 0.5\%$ | 0.19% |
| Peptide Purity | $\geq 98.0\%$ | 99.26% |
| Related Substance | Total Impurities(%) $\leq 2.0\%$ | Total Impurities: 0.74% |
| | Largest Single Impurity(%) $\leq 1.0\%$ | Largest Single Impurity: 0.50% |
| Bacterial Endotoxins | $\leq 10\text{EU/mg}$ | Conform |
| Assay | $\geq 90.0\%$ | 94.54% |

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CERTIFICATE OF ANALYSIS

| | |
|---------------------------|---------------------|
| Product Name | Ipamorelin |
| CAS No. | 170851-70-4 |
| Molecular Formula | C38H49N9O5 |
| Molecular Weight | 711.85 |
| Batch No. | XR25030801-3-1 |
| Date of Mfg | Mar. 12, 2024 |
| Reference Standard | Enterprise Standard |
| Retest Date | Mar. 11, 2026 |

| TEST | SPECIFICATION | RESULT |
|----------------------|--|--------------------------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | $\leq 8.0\%$ | 3.50% |
| Acetic Acid | $\leq 18.0\%$ | 16.10% |
| Trifluoroacetic Acid | $\leq 0.5\%$ | 0.34% |
| Peptide Purity | $\geq 98.0\%$ | 99.85% |
| Related Substance | Total Impurities($\%$) $\leq 2.0\%$ | Total Impurities: 0.15% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | Largest Single Impurity: 0.05% |
| Bacterial Endotoxins | ≤ 10 EU/mg | Conform |
| Assay | $\geq 75.0\%$ | 79.60% |

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CERTIFICATE OF ANALYSIS

| | |
|----------------------|---------------------------------|
| Product Name | SOMATROPIN POWDER FOR INJECTION |
| Batch No. | Y20250312 |
| Specification | 10 IU / 3.7 mg / 1.0 ml / vial |
| MFG Date | 2025.03.14 |
| Storage | Sealed, 2~8°C |
| Expire Date | 2027.03.13 |
| Test Standard | EP 11.2 |

| TEST | SPECIFICATION | RESULT |
|---------------------------------|--|---|
| Appearance | White or off-white lyophilized powder | White lyophilized powder |
| Identification | Retention time of sample = standard | Conformed |
| Content retention time | Retention time of sample = standard | Conformed |
| Related protein | Total related protein $\leq 10.0\%$ | 2.7% |
| High molecular protein | High molecular protein $\leq 6.0\%$ | 0.3% |
| Impurities with charge | Deaminated impurities $\leq 6.5\%$ Max individual impurities $\leq 2.0\%$ Total impurities $\leq 11.5\%$ | Deaminated impurities 2.5% Max individual impurities 1.7% Total impurities 5.2% |
| Sterility | Conforms | Conformed |
| Bacterial endotoxin | ≤ 5.0 EU/mg | Conformed |
| Biological activity | ≥ 3.0 IU/mg | 3.4 IU/mg |
| Water | $\leq 3.0\%$ | 1.1% |
| Visible particles | Conforms | Conformed |
| Undue toxicity | Conforms | Conformed |
| Content uniformity | Conforms | Conformed |
| Insoluble particle | Conforms | Conformed |
| Clarity and colour of solutions | Solution should be clear & colourless, \leq Turbidity Standard No.2 | Clear and Colourless |
| Assay | SOMATROPIN content 89.0%~105.0% of labelled amount | 100.4% |

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CERTIFICATE OF ANALYSIS

| | |
|---------------------------|---------------------|
| Product Name | CJC-1295 |
| CAS No. | 863288-34-0 |
| Molecular Formula | C152H252N44O42 |
| Molecular Weight | 3367.897 |
| Batch No. | XR25030501-1 |
| Date of Mfg | Mar. 04, 2025 |
| Reference Standard | Enterprise Standard |
| Retest Date | Mar. 03, 2027 |

| TEST | SPECIFICATION | RESULT |
|----------------------|---|--------------------------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | $\leq 8.0\%$ | 3.50% |
| Acetic Acid | $\leq 15.0\%$ | 6.89% |
| Trifluoroacetic Acid | $\leq 0.5\%$ | Not Detected |
| Peptide Purity | $\geq 98.0\%$ | 99.57% |
| Related Substance | Total Impurities(%) $\leq 2.0\%$ | Total Impurities: 0.43% |
| | Largest Single Impurity(%) $\leq 1.0\%$ | Largest Single Impurity: 0.17% |
| Bacterial Endotoxins | ≤ 10 EU/mg | Conform |
| Assay | $\geq 85\%$ | 88.08% |

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CERTIFICATE OF ANALYSIS

| | |
|---------------|---|
| Product Name | Tesamorelin |
| Batch No. | XR25103101-6 g |
| Specification | Not stated (Typically would include concentration, e.g., 2 mg/vial, if known) |
| MFG Date | 2024.03.11 |
| Storage | Sealed, 2~8°C |
| Expire Date | 2026.03.10 |
| Test Standard | Enterprise Standard |

| TEST | SPECIFICATION | RESULT |
|-------------------------|-------------------------------------|--------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | ≤ 8.0% | 5.60% |
| Acetic Acid | ≤ 10.0% | 4.62% |
| Trifluoroacetic Acid | ≤ 0.5% | Not Detected |
| Peptide Purity | ≥ 98.0% | 99.58% |
| Total Impurities | ≤ 2.0% | 0.42% |
| Largest Single Impurity | ≤ 1.0% | 0.19% |
| Bacterial Endotoxins | ≤ 10 EU/mg | Conform |
| Assay | ≥ 85.0% | 92.46% |

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CERTIFICATE OF ANALYSIS

| | |
|---------------|---------------------|
| Product Name | Ipamorelin |
| Batch No. | XR25030801-3-1 g |
| Specification | Not stated |
| MFG Date | 2024.03.12 |
| Storage | Sealed, 2~8°C |
| Expire Date | 2026.03.11 |
| Test Standard | Enterprise Standard |

| TEST | SPECIFICATION | RESULT |
|-------------------------|-------------------------------------|---------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | ≤ 8.0% | 3.50% |
| Acetic Acid | ≤ 18.0% | 16.10% |
| Trifluoroacetic Acid | ≤ 0.5% | 0.34% |
| Peptide Purity | ≥ 98.0% | 99.85% |
| Total Impurities | ≤ 2.0% | 0.15% |
| Largest Single Impurity | ≤ 1.0% | 0.05% |
| Bacterial Endotoxins | ≤ 10 EU/mg | Conform |
| Assay | ≥ 75.0% | 79.60% |

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CERTIFICATE OF ANALYSIS

| | |
|----------------------|--|
| Product Name | Tirzepatide |
| Batch No. | P20250301 |
| Specification | Not stated |
| MFG Date | 2025.03.05 |
| Storage | Store at -20±5°C, protected from light |
| Expire Date | 2027.03.06 |
| Test Standard | In house |

| TEST | SPECIFICATION | RESULT |
|--------------------------------|---|-----------|
| Appearance | White to off white powder | Conforms |
| Solubility | Soluble in water | Conforms |
| Identification | Retention time corresponds to reference | Conforms |
| pH | 6.0 to 9.0 | 8.0 |
| Water Content | ≤ 5.0% | 2.8% |
| Acetic Acid | ≤ 0.5% | 0.1% |
| Trifluoroacetate Ion | ≤ 0.25% | 0.01% |
| Sodium Ion | ≤ 5.0% | 1.5% |
| Methanol | ≤ 3000 ppm | 40 ppm |
| Acetonitrile | ≤ 410 ppm | 200 ppm |
| N,N-Dimethylformamide | ≤ 880 ppm | ND |
| Maximum Single Impurity | ≤ 0.5% | 0.44% |
| Total Impurities | ≤ 1.0% | 0.44% |
| Purity | ≥ 98.0% | 99.5% |
| High Molecular Mass Impurities | ≤ 0.30% | 0.06% |
| Total Aerobic Microbial Count | ≤ 10 ³ cfu/g | < 1 cfu/g |
| Moulds and Yeasts | ≤ 10 ² cfu/g | < 1 cfu/g |
| Assay | 95.0% – 105.0% | 100.4% |
| Assay of Peptide | ≥ 85.0% | 95.1% |
| Bacterial Endotoxin Test | < 50 EU/mg | Conforms |

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CERTIFICATE OF ANALYSIS

Product Name GHK-Cu
Batch No. 2025051901
Specification Not stated
MFG Date 2025/05/19
Storage 2-8°C, keep dry and dark
Expire Date 2027/05/18
Test Standard Enterprise Standard

| TEST | SPECIFICATION | RESULT |
|----------------|-----------------------|---------|
| Appearance | Blue to purple powder | Conform |
| Solubility | Soluble in water | Conform |
| pH | 5.5 – 7.0 | 6.2 |
| GHK Purity | ≥ 97.0% | 99.0% |
| Copper Content | 8.0% – 16.0% | 11.7% |
| Chloride | ≤ 15.0% | 6.4% |
| Loss on Drying | ≤ 8.0% | 5.1% |
| | | |
| | | |
| | | |

Note: This product is for research or production use only. Not for direct human use.

CERTIFICATE OF ANALYSIS

| | |
|----------------------|--|
| Product Name | Sermorelin |
| Batch No. | TH2505151 |
| Specification | Not stated |
| MFG Date | 2025/05/15 |
| Storage | Place in an airtight container protected from light, 2-8°C |
| Expire Date | 2027/05/14 |
| Test Standard | Enterprise Standard |

| TEST | SPECIFICATION | RESULT |
|--------------------------------|-------------------------------------|--------------|
| Appearance | White or almost white fluffy powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content | ≤ 8.0% | 3.50% |
| Acetic Acid | ≤ 15.0% | 7.21% |
| Trifluoroacetic Acid | ≤ 0.5% | Not Detected |
| Peptide Purity | ≥ 98.0% | 99.48% |
| Total Impurities | ≤ 2.0% | 0.52% |
| Largest Single Impurity | ≤ 1.0% | 0.27% |
| Bacterial Endotoxins | ≤ 10 EU/mg | Conform |
| Assay | ≥ 85% | 87.62%v |

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