

HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|---------------------------|---|--------------------------|------------|
| Product Name | TB-500 | | |
| CAS No. | 77591-33-4 | Batch No. | 2025030101 |
| Molecular Formula | C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S | Date of Producing | 2025/03/21 |
| Molecular Weight | 4963.44 | Retest Date | 2027/03/20 |
| Date of Survey | 2025/04/01 | Specification | 5mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|-----------------------------------|---------|
| Appearance | White or off-white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤ 8.0% | 3.3% |
| Acetic Acid (By HPLC) | ≤ 10.0% | 3.8% |
| Assay | 95%-105% | 100% |
| Peptide Purity (By HPLC) | ≥ 98.0% | 98.9% |
| Related Substance (By HPLC) | Total Impurities(%) ≤ 2.0% | 1.1% |
| | Largest Single Impurity(%) ≤ 1.0% | 0.3% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only

Limit To Research And Submission Use
Not For Direct Human Application

Analyst: Wan Dongmei

QC Director: Ling Cheng

Checker: Shi Ru

HYGENEPHARMA
质检专用章
(QC)

Certificate of Analysis

| | | | |
|---------------------------|--|--------------------------|--------------|
| Product Name | JD086 | | |
| Molecular Formula | $C_{221}H_{366}N_{72}O_{67}S \cdot xC_2H_4O_2$ | Batch No. | 2024122301-1 |
| Molecular Weight | 5135.90•x60 | Date of Producing | 2025/01/15 |
| Date of Survey | 2025/01/21 | Retest Date | 2027/01/14 |
| Reference Standard | Enterprise Standard | Specification | 5mg |

| TEST | SPECIFICATION | RESULT |
|---|--|---------------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | $\leq 7.0\%$ | 4.7% |
| Acetic Acid (By HPLC) | $\leq 10.0\%$ | 6.1% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.5% |
| Assay | 95%-105% | 100.04% |
| Related Substance (By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.5% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.5% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst: Wan Dongmei

QC Director: Ling Cheng

Checker: Shi Ru

Certificate of Analysis

| | | | |
|-------------|------------|--------------|----------|
| Product: | SOMATROPIN | Report Date: | 20250703 |
| Batch No.: | 20250614 | MFG Date: | 20250620 |
| Size: | 10IU | Expire Date: | 2027.05 |
| Test Basis: | EP 5.0 | | |

Result

| ITEMS | STANDARD | TEST RESULT |
|------------|-----------------------------|-------------|
| Charactors | a white freeze dried powder | COMFORMED |

INDIFICATIONS

| | | |
|--------------------|--------------------------|-----------|
| A(IEF) | CORRESPONDS TO REFERENCE | COMFORMED |
| B(HPLC/RP) | CORRESPONDS TO REFERENCE | COMFORMED |
| C(PEPTIDE MAPPING) | CORRESPONDS TO REFERENCE | COMFORMED |
| D(HPLC/SEC) | CORRESPONDS TO REFERENCE | COMFORMED |

TESTS

| | | |
|---|--|---------------|
| PH | 6.5-8.5 | 7.3 |
| Related protein (HPLC/RP) | not greater than 13% | 1.90% |
| Dimer and related substance of high molecular mass (HPLC/SEC) | not greater than 6% | 0.10% |
| Isoform Distribution | not great than 6.25% | COMFORMED |
| Water | not great than 3% | 1.50% |
| Bacterial endotoxins | not great than 5IU/mg hGH | <5IU/mg hGH |
| Host cell derived protein | not great than 20 ng/mg hGH | 12 ng/mg hGH |
| Host-cell and vector-derived DN | not great than 20 pg/mg hGH | <10 pg/mg hGH |
| Test for sterility | COMFORMED | COMFORMED |
| Assay(HPLC/SEC) | 90%-110% the amount of somatropin state on the label | 100.20% |

Conclusions: Fullfill with European Pharmaceutical 5.0 specifications

storage: In a sterile, airtight, at the temperature of 2-8 °C

Certificate of Analysis

| | | | |
|---------------------------|------------------------------|--------------------------|------------|
| Product Name | Tirzepatide | | |
| Molecular Formula | $C_{225}H_{348}N_{48}O_{68}$ | Batch No. | 2025032701 |
| Molecular Weight | 4813.45 | Date of Producing | 2025/04/12 |
| Date of Survey | 2025/04/25 | Retest Date | 2027/04/11 |
| Reference Standard | Enterprise Standard | Specification | 15mg |

| TEST | SPECIFICATION | RESULT |
|------------------------------------|--|-------------|
| Appearance | White to off white powder or loose lump | Conform |
| Solubility | Soluble in 50% aqueous acetonitrile | Conform |
| Identity By MS | 4813.45 ± 2.0 | 4812.2 |
| Water Content(Karl Fischer) | $\leq 10.0\%$ | 4.9% |
| Sodium ion | $\leq 3.0\%$ | 1.5% |
| Peptide Purity(By HPLC) | $\geq 98.0\%$ | 99.2% |
| Assay | 95%-105% | 100.03% |
| Related Substance(By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.8% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.3% |
| Peptide Content | $\geq 85.0\%$ | 92.8% |
| Organic solvent residue | Acetonitrile $\leq 0.041\%$ | $< 0.041\%$ |
| | Dichloromethane $\leq 0.060\%$ | $< 0.06\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $< 0.088\%$ |

Conclusion: the product conforms with enterprise standard and qualified

The product is for compliant use only.

Analyst: Zhao Xinyu

QC Director: Sun Xiaoyang

Checker: Shi Ru

Certificate of Analysis

| | | | |
|---------------------------|------------------------------|--------------------------|------------|
| Product Name | Tirzepatide | | |
| Molecular Formula | $C_{225}H_{348}N_{48}O_{68}$ | Batch No. | 2025031503 |
| Molecular Weight | 4813.45 | Date of Producing | 2025/03/19 |
| Date of Survey | 2025/03/20 | Expire Date | 2027/03/18 |
| Reference Standard | Enterprise Standard | Specification | 10mg/vial |

| TEST | SPECIFICATION | RESULT |
|--|--|-------------|
| Appearance | White to off white powder or loose lump | Conform |
| Solubility | Soluble in 50% aqueous acetonitrile | Conform |
| Identity By MS | 4813.45 ± 2.0 | 4812.2 |
| Water Content(Karl Fischer) | $\leq 10.0\%$ | 2.9% |
| Sodium ion | $\leq 3.0\%$ | 1.7% |
| Peptide Purity(By HPLC) | $\geq 98.0\%$ | 99.4% |
| Related Substance(By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.6% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.2% |
| Assay | 95%-105% | 100.2% |
| Organic solvent residue | Acetonitrile $\leq 0.041\%$ | $< 0.041\%$ |
| | Dichloromethane $\leq 0.06\%$ | $< 0.06\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $< 0.088\%$ |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst: Yang Yan

QC Director: Sun Xiaoyang



Certificate of Analysis

| | | | |
|---------------------------|---|--------------------------|------------|
| Product Name | Tirzepatide | | |
| Molecular Formula | C ₂₂₅ H ₃₄₈ N ₄₈ O ₆₈ | Batch No. | 2025070601 |
| Molecular Weight | 4813.45 | Date of Producing | 2025/07/23 |
| Date of Survey | 2025/08/06 | Retest Date | 2027/07/22 |
| Reference Standard | Enterprise Standard | Specification | 60mg |

| TEST | SPECIFICATION | RESULT |
|---|---|----------|
| Appearance | White to off white powder or loose lump | Conform |
| Solubility | Soluble in 50% aqueous acetonitrile | Conform |
| Identity By MS | 4813.45±2.0Da | 4812.6Da |
| Water Content(Karl Fischer) | ≤ 10.0% | 3.3% |
| Sodium ion | ≤ 3.0% | 0.9% |
| Assay | 95%-105% | 100.02% |
| Peptide Purity(By HPLC) | ≥ 98.0% | 99.5% |
| Related Substance(By HPLC) | Total Impurities ≤ 2.0% | 0.5% |
| | Largest Single Impurity ≤ 1.0% | 0.2% |
| Peptide Content | ≥85.0% | 95.3% |
| Organic solvent residue | Acetonitrile ≤0.041% | < 0.041% |
| | Dichloromethane ≤0.060% | < 0.060% |
| | N,N-Dimethylformamide ≤0.088% | < 0.088% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst:Zhao Xinyu

QC Director: Xie Xiaofei

Checker:Shi Ru

Certificate of Analysis

| | | | |
|---------------------------|----------------------|--------------------------|--------------|
| Product Name | Elamipretide | | |
| CAS No. | 736992-21-5 | Batch No. | 2025070401-3 |
| Molecular Formula | $C_{32}H_{49}N_9O_5$ | Date of Producing | 2025/07/21 |
| Molecular Weight | 639.79 | Retest Date | 2027/07/20 |
| Date of Survey | 2025/07/26 | Specification | 50mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|---|---------------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Assay | 95%-105% | 100.02% |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 5.2% |
| Acetic Acid (By HPLC) | $\leq 22.0\%$ | 19.4% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.7% |
| Related Substance (By HPLC) | Total Impurities($\leq 2.0\%$) | 0.3% |
| | Largest Single Impurity($\leq 1.0\%$) | 0.1% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst: Cheng Diya

QC Director: Ling Cheng

Checker: Shi Ru

Certificate Of Analysis

| | | | |
|-----------------------------------|--|---------------------------|---------------------|
| Product Name | Cerebrolysin | Manufacturing Date | Oct.8,2025 |
| Batch No. | PB240508 | Test Date | Oct.9,2025 |
| Specification | 60mg | Expiry Date | Oct.7,2027 |
| ITEMS | SPECIFICATION | METHOD | TEST RESULTS |
| Physical&Chemical Data | | | |
| Color | White or off-white | Organoleptic | Conform |
| Appearance | Fine Powder | Organoleptic | Conform |
| Analytical Quality | | | |
| Identification | Identical to R.S. sample | Conform | |
| Assay | ≥98.0% | 100.02% | |
| Sieve analysis | 100 % through 80 mesh | Conform | |
| Water(KF) | ≤1.0 % | 0.21% | |
| Total Ash | ≤1.0 % | 0.02 % | |
| Contaminants | | | |
| Lead (Pb) | ≤3.0 mg/kg | 0.0325 mg/kg | |
| Arsenic (As) | ≤2.0 mg/kg | <0.01 mg/kg | |
| Cadmium (Cd) | ≤1.0 mg/kg | <0.01 mg/kg | |
| Mercury (Hg) | ≤0.1 mg/kg | 0.0658mg/kg | |
| Solvents Residue | Meet Eur.Ph.7.0 <5.4> | Conform | |
| Microbiological | | | |
| Total Plate Count | ≤10000 cfu/g | 1400 cfu/g | |
| Yeast &Mold | ≤1000 cfu/g | 140 cfu/g | |
| E.Coli. | Negative | Conform | |
| Salmonella | Negative | Conform | |
| General Status | | | |
| Packing&Storage | Packed in paper-drums and two plastic-bags inside. Store in a well-closed container Away from moisture,light, oxygen. | | |
| Shelf life | 24 months under the conditions above and in its original packaging. | | |

QUALITY CONTROL:

CHECK:姚仙娟

INSPECTOR: 刘清风

Certificate of Analysis

| | |
|---------------------------|---|
| Product name | Cartalax |
| CAS No. | N/A |
| Sequence | H-Ala-Glu-Asp-OH |
| Molecular Formula | C ₁₂ H ₁₉ N ₃ O ₈ |
| Molecular Weight | 333.29 |
| Batch No. | 20250423-0 |
| Specification | 20mg |
| Manufacturing Date | Apr.23, 2025 |
| Expiry Date | Apr.22, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|---------------------|-----------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW: 333.29 | Complies |
| Purity (HPLC) | ≥ 98.0% | 99.35% |
| Water (K.F.) | ≤7.0% | 6.17% |
| Acetic acid content | ≤15.0% | 11.64% |
| Assay | 95%-105% | 100.04% |
| Solubility | ≥ 2mg/ml (H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

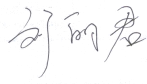


Q. C. Manager:xiqing

2025-06-18

Inspector: Lukangmei

2025-06-18

| 产品名称 Product Name: 5-氨基-1-甲基-喹啉氯化物 5-Amino-1-methyl-quinoline chloride | | |
|---|--|----------------------|
| CAS No.: 42464-96-0 | | |
| 批号 Batch No.: J-NI60-202509003 | | |
| 含量 Assay: 50mg | | |
| 生产日期 Mfg Date: 20250920 | | |
| 复验期 Retest Date: 202708 | | |
| 储藏 Storage: 避光密封保存 Sealed, keep away from light. | | |
| 执行标准 Perform Standard: 企业标准 Enterprise Standard | | |
| 检验项目 Test Items | 标准规定 Specifications | 检验结果 Test Results |
| 外观 Appearance | 棕色至棕红色粉末 Brown to brownish-red powder | 符合规定 Conforms |
| 水分 Water | ≤8.5% | 4.50% |
| 相关物质 Related substances | 单一杂质 Single impurity≤1.0% | 0.50% |
| | 总杂质 Total impurities≤2.0% | 0.72% |
| 纯度(HPLC) Purity(HPLC) | ≥98.0% | 99.28% |
| 含量 Assay | 98.0%~102% | 100.07% |

| | | |
|--|---|---|
| 炽灼残渣 Residue on ignition | $\leq 0.1\%$ | 0.02% |
| 重金属 Heavy metal | $\leq 20\text{ppm}$ | 符合规定 Conforms |
| 结论：符合企业标准 Conclusion: Conforms to Enterprise standard | | |
| 审查者 Exam |  | 化验者 Analyst |
| |  | 复核者 Checker |
| | |  |

CERTIFICATE OF ANALYSIS

Catalog No : ADAMAX
Product Name : 153931-84-9
Sequence : Ac-MEHFPGPAG
Lot Number : P250521-P360
MolecularFormula : C₄₄H₆₁O₁₃N₁₁S₁
Molecular Weight : 984.1
Specification : 10mg
Store at : Cool dry place

| Tests | Specifications | Results |
|------------------------------|---------------------------|------------|
| Appearance | White to off white powder | Consistent |
| Purity(HPLC) | ≥98.0% | 99.13% |
| Sample Salt Type | <3.0% | 2.24% |
| Water Content (Karl Fischer) | ≤10.00% | 2.93% |
| Assay | 95%-105% | 100.03% |
| MS | Consistent | Consistent |

| | | |
|--------------------|-------------------|------------|
| Quality Control by | <i>Xinyu Bian</i> | 2025-06-09 |
| Quality Assured by | <i>Lin Zhang</i> | 2025-06-09 |

Certificate of Analysis

| Product Name | AOD | | |
|--------------------|--------------------------------|----------------------|----------------------|
| Molecular Formula | $C_{78}H_{123}N_{23}O_{23}S_2$ | Batch No. | 2025031201 |
| Molecular Weight | 1815.1 | Date of Producing | 2025/04/02 |
| Date of Survey | 2025/04/14 | Retest Date | 2027/04/01 |
| Reference Standard | Enterprise Standard | Condition of Storage | $-20 \pm 5^{\circ}C$ |

| TEST | SPECIFICATION | RESULT |
|---|--|-------------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 5.3% |
| Acetic Acid (By HPLC) | $\leq 15.0\%$ | 4.7% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.7% |
| Related Substance (By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.3% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.2% |
| Organic Solvent Residue | Acetonitrile $\leq 0.041\%$ | $< 0.041\%$ |
| | Dichloromethane $\leq 0.060\%$ | $< 0.060\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $< 0.088\%$ |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst:Wan Dongmei QC Director: Ling Cheng Checker:Shi Ru

Certificate of Analysis

| | |
|---------------------|---|
| Product name | BPC157 |
| Molecular Formula | C ₆₂ H ₉₈ N ₁₆ O ₂₂ |
| Molecular Weight | 1419.54 |
| Batch No. | 20251028-2 |
| Quantity | 998.0g |
| Manufacturing Date | Oct.28, 2025 |
| Expiry Date | Oct.27, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|-----------------------------|----------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW:1419.54 | Complies |
| Purity (HPLC) | ≥98.0% | 99.39% |
| Peptide Content (N%) | ≥80.0% | 97.26% |
| Water (K.F.) | ≤7.0% | 1.24% |
| Arginine acid content(HPLC) | ≤15.0% | 0.62% |
| Solubility | ≥2mg/ml(H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-11-25

Inspector: Lukangmei

2025-11-25

HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|--------------------|--|----------------------|------------|
| Product Name | Pentadecapeptide BPC157+Arg | | |
| CASNo. | — | Batch No. | 2025021101 |
| Molecular Formula | C ₆₂ H ₉₅ N ₁₆ O ₂₂ · C ₆ H ₁₄ N ₄ O ₂ | Date of Producing | 2025/02/26 |
| Molecular Weight | 1593.74 | Retest Date | 2027/02/25 |
| Date of Survey | 2025/03/03 | Condition of Storage | 10mg/vial |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|-----------------------------------|----------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤10.0% | 3.9% |
| Acetic Acid (By HPLC) | ≤0.5% | 0.3% |
| Arg Content | 10.9±1.0% | 10.2% |
| Peptide Purity (By HPLC) | ≥98.0% | 99.6% |
| Related Substance (By HPLC) | Total Impurities (%) ≤2.0% | 0.4% |
| | Largest Single Impurity (%) ≤1.0% | 0.2% |
| Organic Solvent Residue | Acetonitrile ≤0.041% | <0.041% |
| | Dichloromethane ≤0.060% | <0.060% |
| | N, N-Dimethylformamide ≤0.088% | <0.088% |
| Bacterial Endotoxins | <10EU/mg | <10EU/mg |
| Assay | 95%–105% | 100.1% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only

Analyst: Hou Jieling

QC Director: Ling Cheng

Checker: Shi Ru



HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|---------------------------|--|-----------------------------|------------|
| Product Name | Pentadecapeptide BPC157+Arg | | |
| CASNo. | — | Batch No. | 2025030101 |
| Molecular Formula | $C_{62}H_{98}N_{16}O_{22} \cdot C_6H_{14}N_4O_2$ | Date of Producing | 2025/03/20 |
| Molecular Weight | 1593.74 | Retest Date | 2027/03/19 |
| Date of Survey | 2025/03/25 | Condition of Storage | -20±5°C |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|--|----------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤10.0% | 3.5% |
| Acetic Acid (By HPLC) | ≤0.5% | 0.18% |
| Arg Content | 10.9±1.0% | 10.9% |
| Peptide Purity (By HPLC) | ≥98.0% | 99.5% |
| Related Substance (By HPLC) | Total Impurities(%)≤2.0% | 0.5% |
| | Largest Single Impurity(%)≤1.0% | 0.1% |
| Organic Solvent Residue | Acetonitrile≤0.041% | <0.041% |
| | Dichloromethane≤0.060% | <0.060% |
| | N,N-Dimethylformamide≤0.088% | <0.088% |
| Bacterial Endotoxins | <10EU/mg | <10EU/mg |
| Conclusion:the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst:Cheng Diya

QC Director:Ling Cheng

Checker:Shi Ru



Certificate of Analysis

| | | | |
|--------------------------|------------|-----------------------|--------------|
| Product Name | DSIP | Batch No. | 2025061201-2 |
| Date of Producing | 2025/10/28 | Date of Survey | 2025/11/05 |
| Retest Date | 2027/10/27 | Specification | 5mg |

| TEST | SPECIFICATION | RESULT |
|---|--|-------------------|
| Appearance | White or almost white powder | Conform |
| Assay | 95%-105% | 100.03% |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 5.5% |
| Acetic Acid (By HPLC) | $\leq 15.0\%$ | 7.3% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.2% |
| Related Substance (By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.8% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.5% |
| Bacterial endotoxin | $<10\text{EU/mg}$ | $<10\text{EU/mg}$ |

The product is for compliant use only .

CERTIFICATE OF ANALYSIS

Catalog No :GT-M144
Product Name :FOXO4-DRI Acetate
Sequence :ltrlrkepaseiaqsileaysqngwanrrsggkrpprrrrqrkkr (all D-AA D型 Ile用 D-ALLO-Ile)
Lot Number : P240515-M144
MolecularFormula : C₂₂₈H₃₈₈N₈₆O₆₄
Moleclar Weight : 5358.06
Specification : 10mg
Store at : Cool dry place

| Tests | Specifications | Results |
|------------------------------|------------------------------|------------|
| Appearance | White to off whitepowder | Consistent |
| Purity(HPLC) | ≥98.0% | 99.13% |
| Related Substance(HPLC) | Any individual impurity≤1.0% | 0.89% |
| Sample Salt Type | Acetate | 10.15% |
| Water Content (Karl Fischer) | ≤10.0% | 2.35% |
| Peptide Content | ≥75.0% | 79.45 % |
| MS | 5358.06±1.0 | Consistent |
| Asaay | 95%-105% | 100.02% |

| | | |
|--------------------|--------------|------------|
| Quality Control by | MENGYAOSHI | 2024-05-30 |
| Quality Assured by | KESHUANGWANG | 2024-05-30 |

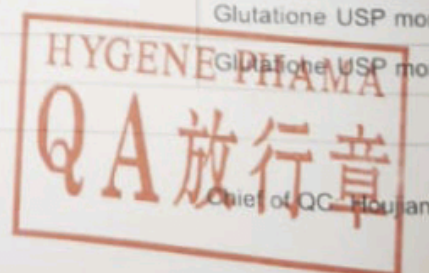
HYGENEPHARMA COMPANY LIMITED

CERTIFICATE OF ANALYSIS

| | | | | |
|---|-------|--|------------------------------------|---|
| Production name | | L-Glutathione reduced | CAS No. | 70-18-8 |
| Batch No. | | GSH-21230602 | Formula | C ₁₀ H ₁₇ N ₃ O ₆ S |
| MFG. Date | | Mar. 06, 2025 | Specification | 400mg |
| Expiry Date | | Mar. 05, 2027 | Report Date | Mar.15, 2025 |
| Storage conditions | | Store in cool place(2~8℃). Keep container tightly closed in a dry and well-ventilated place. | | |
| Inspection Standard | | Enterprise Standard | | |
| Test Items | | Specifications | Results | Analytical method reference |
| Appearance | | White or almost white crystalline powder | White crystalline powder | visual |
| Identification IR | | Conforms to the Reference Spectrum | Conforms to the Reference Spectrum | USP<197k> |
| Optical rotation | | -15.5° to -17.5° | -15.5° | USP<781s> |
| Appearance of solution | | Clear and colorless | Clear and colorless | visual |
| Chlorides | | Not more than 200 ppm | Complied | USP<221> |
| Sulfates | | Not more than 300 ppm | Complied | USP<221> |
| Ammonium | | Not more than 200 ppm | Complied | Glutathione USP monograph |
| Iron | | Not more than 10 ppm | Complied | USP<241> |
| Arsenic | | Not more than 1 ppm | Complied | AFS |
| Heavy metals | | Not more than 10 ppm | Complied | USP<231> |
| Cadmium (Cd) | | Not more than 1 ppm | Complied | AAS |
| Plumbum (Pb) | | Not more than 3 ppm | Complied | AAS |
| Mercury (Hg) | | Not more than 1 ppm | Complied | AFS |
| Sulfated ash | | Not more than 0.1% | 0.069% | USP<281> |
| Loss on drying | | Not more than 0.5% | 0.396% | USP<731> |
| Bulk density | | Not less than 0.2g/ml | 0.3366g/ml | USP<616> |
| Tapped density | | Not less than 0.4g/ml | 0.6383g/ml | USP<616> |
| Total plate count | | ≤ 1000cfu/g | Complied | USP<61> |
| Yeast and mold count | | ≤ 100cfu/g | Complied | USP<61> |
| Salmonella | | Negative | Complied | USP<62> |
| Related Substances | Total | Maximum 2.0% | 1.83% | Glutathione USP monograph |
| | GSSG | Maximum 1.5% | 0.96% | Glutathione USP monograph |
| Assay | | 98.0% to 102.0% | 100.13% | Glutathione USP monograph |
| Conclusion: Complies with Enterprise Standard | | | | |

Analyst: Liuyanmei

Auditor: Shenyanyun



Certificate of Analysis

| | | | |
|-------------|------------|--------------|----------|
| Product: | SOMATROPIN | Report Date: | 20250703 |
| Batch No.: | 20250614 | MFG Date: | 20250620 |
| Size: | 12IU | Expire Date: | 2027.05 |
| Test Basis: | EP 5.0 | | |

Result

| ITEMS | STANDARD | TEST RESULT |
|------------|-----------------------------|-------------|
| Charactors | a white freeze dried powder | COMFORMED |

INDIFICATIONS

| | | |
|--------------------|--------------------------|-----------|
| A(IEF) | CORRESPONDS TO REFERENCE | COMFORMED |
| B(HPLC/RP) | CORRESPONDS TO REFERENCE | COMFORMED |
| C(PEPTIDE MAPPING) | CORRESPONDS TO REFERENCE | COMFORMED |
| D(HPLC/SEC) | CORRESPONDS TO REFERENCE | COMFORMED |

TESTS

| | | |
|---|--|---------------|
| PH | 6.5-8.5 | 7.3 |
| Related protein (HPLC/RP) | not greater than 13% | 1.90% |
| Dimer and related substance of high molecular mass (HPLC/SEC) | not greater than 6% | 0.10% |
| Isoform Distribution | not great than 6.25% | COMFORMED |
| Water | not great than 3% | 1.50% |
| Bacterial endotoxins | not great than 5IU/mg hGH | <5IU/mg hGH |
| Host cell derived protein | not great than 20 ng/mg hGH | 12 ng/mg hGH |
| Host-cell and vector-derived DN | not great than 20 pg/mg hGH | <10 pg/mg hGH |
| Test for sterility | COMFORMED | COMFORMED |
| Assay(HPLC/SEC) | 90%-110% the amount of somatropin state on the label | 100.20% |

Conclusions: Fullfill with European Pharmaceutical 5.0 specifications

storage: In a sterile, airtight, at the temperature of 2-8 °C

Certificate of Analysis

| | | | |
|--------------------|-----------------------------------|-------------------|------------|
| Product Name | GHK-Cu | | |
| CAS No. | - | Batch No. | 2025031801 |
| Molecular Formula | $C_{14}H_{22}N_6O_4Cu \cdot xHCl$ | Date of Producing | 2025/03/25 |
| Molecular Weight | GHK:340.5 | Retest Date | 2027/03/24 |
| Date of Survey | 2025/03/30 | Specification | 100mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|---------------------------|---------|
| Appearance | Blue or light blue powder | Conform |
| Solubility | Soluble in water | Conform |
| GHK Purity (By HPLC) | $\geq 97.0\%$ | 99.6% |
| Copper Content | 8.0%~16.0% | 11.4% |
| Assay | 95%-105% | 100.02% |
| Chloride | $\leq 15.0\%$ | 7.4% |
| Loss on drying | $\leq 8.0\%$ | 5.2% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

Analyst: Cheng Diya

QC Director: Ling Cheng

Checker: Shi Ru

Certificate of Analysis

| | | | |
|--------------------|-----------------------------------|-------------------|------------|
| Product Name | GHK-Cu | | |
| CAS No. | - | Batch No. | 2025031801 |
| Molecular Formula | $C_{14}H_{22}N_6O_4Cu \cdot xHCl$ | Date of Producing | 2025/03/25 |
| Molecular Weight | GHK:340.5 | Retest Date | 2027/03/24 |
| Date of Survey | 2025/03/30 | Specification | 100mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|---------------------------|---------|
| Appearance | Blue or light blue powder | Conform |
| Solubility | Soluble in water | Conform |
| GHK Purity (By HPLC) | $\geq 97.0\%$ | 99.6% |
| Copper Content | 8.0%~16.0% | 11.4% |
| Assay | 95%-105% | 100.02% |
| Chloride | $\leq 15.0\%$ | 7.4% |
| Loss on drying | $\leq 8.0\%$ | 5.2% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

Analyst: Cheng Diya

QC Director: Ling Cheng

Checker: Shi Ru

Certificate of Analysis

| | | | |
|--------------------|-----------------------------------|-------------------|------------|
| Product Name | GHK-Cu | | |
| CAS No. | - | Batch No. | 2025031801 |
| Molecular Formula | $C_{14}H_{22}N_6O_4Cu \cdot xHCl$ | Date of Producing | 2025/03/25 |
| Molecular Weight | GHK:340.5 | Retest Date | 2027/03/24 |
| Date of Survey | 2025/03/30 | Specification | 100mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|---------------------------|---------|
| Appearance | Blue or light blue powder | Conform |
| Solubility | Soluble in water | Conform |
| GHK Purity (By HPLC) | $\geq 97.0\%$ | 99.6% |
| Copper Content | 8.0%~16.0% | 11.4% |
| Assay | 95%-105% | 100.02% |
| Chloride | $\leq 15.0\%$ | 7.4% |
| Loss on drying | $\leq 8.0\%$ | 5.2% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

Analyst: Cheng Diya

QC Director: Ling Cheng

Checker: Shi Ru

Certificate of Analysis

| | |
|---------------------|---|
| Product name | KPV |
| CAS No. | N/A |
| Sequence | H-Lys-Pro-Val-OH |
| Molecular Formula | C ₁₆ H ₃₀ N ₄ O ₄ |
| Molecular Weight | 342.43 |
| Batch No. | 20250903-1 |
| Quantity | 928.0g |
| Specification | 10mg |
| Manufacturing Date | Sep,03, 2025 |
| Expiry Date | Sep,02, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|-----------------------|----------------------------|----------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW:342.43 | Complies |
| Purity (HPLC) | ≥98.0% | 99.04% |
| Peptide Content(By N) | ≥80.0% | 81.65% |
| Water (K.F.) | ≤7.0% | 2.69% |
| Acetic acid content | ≤ 28.0% | 14.18% |
| Assay | 95%-105% | 100.04% |
| Solubility | ≥2mg/ml(H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-09-15

Inspector: Lukangmei

2025-09-15

检验报告/Inspection Report

品名/Name: 左旋肉碱/L-Carnitine

分子式/Molecular: $C_7H_{15}NO^3$

规格/Specification: 10mg

| | | | |
|-----------------|------------|----------------------|-------------|
| 化学文摘登记号/No. | [541-15-1] | 生产日期/Production Date | 07-Nov-2024 |
| 批号/Batch Number | A003424 | 失效日期/Expiration Date | 07-Nov-2026 |
| 样品/Sample | 4418423 | 分析日期/Analysis Date | 07-Nov-2024 |

| 检测项目 Test Items | 结果 Result | 单位 Unit | 规格要求 Specifications |
|---|-----------------------------|------------------------------------|-----------------------------|
| 外观/Appearance | 结晶性粉末 Crystalline powder | | 结晶性粉末 Crystalline powder |
| 颜色/Color | 白色/White | | 白色/White |
| 鉴别/Identification | 符合规定 Qualified | | 符合规定 Qualified |
| 左旋肉碱含量(以干基计)/L-carnitine Content | 100.3 | wt% | 97.0 ~ 103.0 |
| 比旋光度(以干基计) $[\alpha]_D^{20}$ /Specific Rotation | -31.3 | $^{\circ} \cdot m^2 \cdot kg^{-1}$ | -29.0 ~ -32.0 |
| pH | 8.2 | | 5.5 ~ 9.5 |
| 水分/Water Content | 0.1 | wt% | ≤ 4.0 |
| 灼烧残渣/Ignition Residue | 0.0 | wt% | ≤ 0.5 |
| 氯化物(以Cl计) | < 0.02 | wt% | ≤ 0.4 |
| 重金属(以Pb计) | < 10 | ng/kg | ≤ 10 |
| 砷(As) 含量/Assay | < 1.0 95% ~ 105% | ng/kg | ≤ 1.0 100.2% |

printed on: 20-Nov-2024 16:03

Checked by: 姜君君 2024.11.20

QC manager: 姜宏凯 2024.11.20

HYGENE PHARMA COMPANY LIMITED

Certificate of Analysis

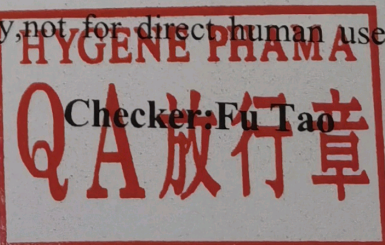
| | | | |
|--------------------|---------------------|-------------------|------------|
| Product Name | Liraglutide | | |
| CAS No. | 204656-20-2 | Batch No. | 2025020501 |
| Molecular Formula | C172H265N43O51 | Date of Producing | 2025/02/23 |
| Molecular Weight | 3751.20 | Retest Date | 2025/02/22 |
| Date of Survey | 2025/02/25 | Specification | 2mg |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|--|-------------|
| Appearance | white or almost white fluffy powder | Conform |
| Solubility | Soluble in dilute ammonia water | Conform |
| Water Content (Karl Fischer) | $\leq 10.0\%$ | 8.8% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.3% |
| Related Substance (By HPLC) | Total Impurities (%) $\leq 2.0\%$ | 0.7% |
| | Largest Single Impurity (%) $\leq 1.0\%$ | 0.7% |
| Organic Solvent Residue | Acetonitrile $\leq 0.041\%$ | $< 0.041\%$ |
| | Dichloromethane $\leq 0.060\%$ | $< 0.060\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $< 0.088\%$ |
| ASSAY | 95%-105% | 100.3% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for research or production use only, not for direct human use.

Analyst: Guo Sirui

QC Director: Bai Yiping



Certificate of Analysis

| | |
|---------------------|---|
| Product name | DZT-059 |
| Molecular Formula | C ₁₂₁ H ₂₀₀ N ₄₂ O ₃₉ |
| Molecular Weight | 2867.18 |
| Batch No. | 20250514-2 |
| Quantity | 10g |
| Manufacturing Date | May.14, 2025 |
| Expiry Date | May.13, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|---------------------------|---------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW:2867.18 | Complies |
| Purity (HPLC) | ≥98.0% | 99.67% |
| Water(K.F.) | ≤ 7.0% | 3.59% |
| Acetic acid content(HPLC) | ≤18.0% | 14.02% |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-06-26

Inspector: Lukangmei

2025-06-26

Certificate of Analysis

| | |
|---------------------|--|
| Product name | MOTS-C |
| Molecular Formula | C ₁₀₁ H ₁₅₂ N ₂₈ O ₂₂ S ₂ |
| Molecular Weight | 2174.59 |
| Specification | 40mg |
| Batch No. | 20250102-1 |
| Manufacturing Date | Jan.02, 2025 |
| Expiry Date | Jan.01, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|---------------------------|---------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW:2174.59 | Complies |
| Assay | 95%-105% | 100.04% |
| Purity (HPLC) | ≥98.0% | 99.90% |
| Peptide Content(By N) | ≥80.0% | 86.36% |
| Water(K.F.) | ≤7.0% | 1.05% |
| Acetic acid content(HPLC) | ≤15.0% | 9.15% |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-01-21

Inspector: Lukangmei

2025-01-21

HYGENE PHARMA COMPANY LIMITED

Certificate of Analysis

| Product Name | MOTS-c | | |
|---|--|-------------------|------------|
| Molecular Formula | $C_{10}H_{15}N_{28}O_{22}S_2$ | Batch No. | 2025021801 |
| Molecular Weight | 2174.34 | Date of Producing | 2025/03/08 |
| Date of Survey | 2025/03/18 | Retest Date | 2027/03/07 |
| Reference Standard | Enterprise Standard | Specification | 5mg |
| TEST | SPECIFICATION | | RESULT |
| Appearance | White or almost white powder | | Conform |
| Solubility | Soluble in water | | Conform |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | | 5.0% |
| Acetic Acid (By HPLC) | $\leq 15.0\%$ | | 8.2% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | | 99.4% |
| Related Substance (By HPLC) | Total Impurities (%) $\leq 2.0\%$ | | 0.6% |
| | Largest Single Impurity (%) $\leq 1.0\%$ | | 0.3% |
| ASSAY | 95%-105% | | 100.40% |
| Conclusion: the product conforms with enterprise standard and qualified | | | |

The product is for compliant use only.

Analyst: Wan Dongmei QC Director: Ling Cheng



HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|--------------------|-------------------------|-------------------|--------------|
| Product Name | Melanotan II | | |
| CASNo. | 121062-08-6 | Batch No. | 2024071101-1 |
| Molecular Formula | $C_{50}H_{69}N_{15}O_9$ | Date of Producing | 2024/10/19 |
| Molecular Weight | 1024.18 | Retest Date | 2026/10/18 |
| Date of Survey | 2024/10/28 | Specification | 10mg |
| Reference Standard | Enterprise Standard | | |

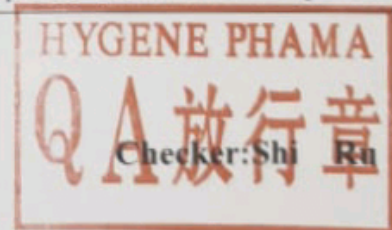
| TEST | SPECIFICATION | RESULT |
|-----------------------------------|--|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 3.2% |
| Acetic Acid (By HPLC) | $\leq 15.0\%$ | 10.5% |
| Trifluoroacetic acid (By HPLC) | $\leq 0.25\%$ | ND |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.5% |
| Related Substance (By HPLC) | Total Impurities (%) $\leq 2.0\%$ | 0.5% |
| | Largest Single Impurity (%) $\leq 1.0\%$ | 0.2% |
| Assay | 95%-105% | 100.5% |

Conclusion: the product conforms with enterprise standard and qualified

The product is for compliant use only.

Analyst: Sun Li

QC Director: Ling Cheng



HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|--------------------|--|----------------------|--------------|
| Product Name | Melanotan II | | |
| CASNo. | 121062-08-6 | Batch No. | 2024071101-1 |
| Molecular Formula | C ₅₀ H ₆₉ Ni ₅ O ₉ | Date of Producing | 2024/10/19 |
| Molecular Weight | 1024.18 | Retest Date | 2026/10/18 |
| Date of Survey | 2024/10/28 | Condition of Storage | -20±5℃ |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|-----------------------------------|----------------------------------|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤8.0% | 3.2% |
| Acetic Acid (By HPLC) | ≤15.0% | 10.5% |
| Trifluoroacetic acid (By HPLC) | ≤0.25% | ND |
| Peptide Purity (By HPLC) | ≥98.0% | 99.5% |
| Related Substance (By HPLC) | Total Impurities(%) ≤2.0% | 0.5% |
| | Largest Single Impurity(%) ≤1.0% | 0.2% |

Conclusion: the product conforms with enterprise standard and qualified

The product is for compliant use only.

Analyst: Sun Li

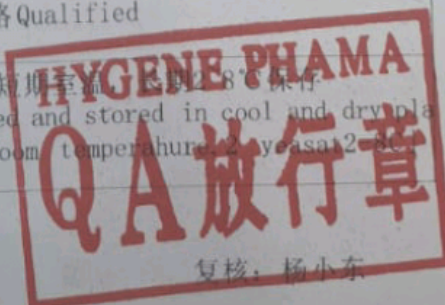
QC Director: Ling Cheng



检测报告单

Certificate of Analysis

| | | | |
|---|--|--------------------------|------------------|
| 产品名称 Product Name | β-烟酰胺腺嘌呤二核苷酸/NAD+ β-Nicotinamide Adenine Dinucleotide | | |
| CAS NO. | 53-84-9 | 生产日期 Manufacture Date | 2024. 12. 20 |
| 批号 Batch NO. | BCKZ241220-1 | 规格 Specification | 500mg |
| 检验日期 Test Date | 2024. 12. 21 | 检验依据 Reference | 企业标准 In House |
| 有效期至 Retest Date | 2026. 12. 19 | | |
| 检测项目 Test Item | 标准 Specifications | 检测结果 Test Result | |
| 外观 Appearance | 白色或类白色结晶性粉末 White or off-white crystalline powder | 符合conform | |
| 含量 (HPLC) Assay (HPLC, wt%) | ≥99.0% | 99.47% | |
| 纯度 (HPLC分析, 百分面积法) Purity (by HPLC, %area) | ≥99.0% | 99.8% | |
| pH(10mg/ml) | 2.0-5.0 | 3.24 | |
| 水分 Water content | ≤8.0% | 3.29% | |
| 乙醇残留 Ethanol (by GC) | ≤1.0% | 0.01% | |
| 重金属 Heavy metals | <10ppm | 符合Conforms | |
| 砷 A s | 不得检出Negative | 未检出Not detected | |
| 铅 P b | 不得检出Negative | 未检出Not detected | |
| 镉 C d | 不得检出Negative | 未检出Not detected | |
| 汞 H g | 不得检出Negative | 未检出Not detected | |
| 菌落总数 Total number of colonies | ≤1000 CFU/g | 符合 Conforms | |
| 酵母菌和霉菌 Yeasts &Molds (PDA method) | <100 CFU/g | 符合 Conforms | |
| 大肠杆菌 Coliform (BGLB method) | 不得检出 Negative | 未检出 Not detected | |
| 金黄色葡萄球菌 Staphylococcus aureus | 不得检出 Negative | 未检出 Not detected | |
| 铜绿假单胞菌 Pseudomonas aeruginosa | 不得检出 Negative | 未检出 Not detected | |
| 含量 Assay | 95%-105% | 100.3% | |
| 结论 Conclusion | 合格Qualified | | |
| 储存 Storage | 密封阴凉干燥处, 短期存储, 室温 8°C 保存 Keep dry, tightly sealed and stored in cool and dry place 2 months storage at room temperature 2 years at 8°C | | |



检验: 刘娟娟

检测报告单
Certificate of Analysis

| | | | |
|---|---|--------------------------|---------------------|
| 产品名称 Product Name | β-烟酰胺腺嘌呤二核苷酸/NAD+ β-Nicotinamide Adenine Dinucleotide | | |
| CAS NO. | 53-84-9 | 生产日期 Manufacture Date | 2024. 12. 20 |
| 批号 Batch NO. | BCKZ241220-1 | 产品规格 Specification | 1000mg |
| 检验日期 Test Date | 2024. 12. 21 | 检验依据 Reference | 企业标准 In House |
| 有效期至 Retest Date | 2026. 12. 19 | | |
| 检测项目 Test Item | 标准 Specifications | | 检测结果 Test Result |
| 外观 Appearance | 白色或类白色结晶性粉末 White or off-white crystalline powder | | 符合conform |
| 含量 (HPLC) Assay (HPLC, wt%) | ≥99.0% | | 99.47% |
| 纯度 (HPLC分析, 百分面积法) Purity (by HPLC, %area) | ≥99.0% | | 99.8% |
| pH(10mg/ml) | 2.0-5.0 | | 3.24 |
| 水分 Water content | ≤8.0% | | 3.29% |
| 乙醇残留 Ethanol (by GC) | ≤1.0% | | 0.01% |
| 重金属 Heavy metals | <10ppm | | 符合Conforms |
| 砷 A s | 不得检出Negative | | 未检出Not detected |
| 铅 P b | 不得检出Negative | | 未检出Not detected |
| 镉 C d | 不得检出Negative | | 未检出Not detected |
| 汞 H g | 不得检出Negative | | 未检出Not detected |
| 菌落总数 Total number of colonies | ≤1000 CFU/g | | 符合 Conforms |
| 酵母菌和霉菌 Yeasts &Molds (PDA method) | <100 CFU/g | | 符合 Conforms |
| 大肠杆菌 Coliform (BGLB method) | 不得检出 Negative | | 未检出 Not detected |
| 金黄色葡萄球菌 Staphylococcus aureus | 不得检出 Negative | | 未检出 Not detected |
| 铜绿假单胞菌 Pseudomonas aeruginosa | 不得检出 Negative | | 未检出 Not detected |
| 结论 Conclusion | 合格Qualified | | |
| 储存 Storage | 密封阴凉干燥处, 短期室温, 长期2~8℃保存 Keep dry, tightly sealed and stored in cool and dry place 2 months storage at room temperature. 2 years at 2-8℃ | | |

检验: 刘娟娟

复核: 杨小东

Certificate of Analysis

| | |
|---------------------|---------------------------------|
| Product name | PEG-MGF |
| Batch No. | 20250428-2 |
| Specification | 2mg |
| Manufacturing Date | Apr.28, 2025 |
| Expiry Date | Apr.27, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|---------------|---------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Purity (HPLC) | ≥98.0% | 99.58% |
| Assay | 95%-105% | 100.05% |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-06-27

Inspector: Lukangmei

2025-06-27

Certificate of Analysis

| | |
|---------------------|---|
| Product name | PT141 |
| Molecular Formula | C ₅₀ H ₆₈ N ₁₄ O ₁₀ |
| Molecular Weight | 1025.16 |
| Batch No. | 20250416-1 |
| Quantity | 513.0g |
| Manufacturing Date | Apr.16, 2025 |
| Expiry Date | Apr.15, 2027 |
| Specification | 10mg |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|-----------------------|----------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW:1025.16 | Complies |
| Purity (HPLC) | ≥98.0% | 99.30% |
| Peptide Content(By N) | ≥80.0% | 91.69% |
| Water (K.F.) | ≤7.0% | 3.43% |
| Acetic acid content | ≤15.0% | 6.09% |
| Assay | 95%-105% | 100.02% |
| Solubility | ≥2mg/ml(H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-05-28

Inspector: Lukangmei

2025-05-28

HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|--------------------|---|-------------------|------------|
| Product Name | Retatrutide | | |
| CAS No. | 2381089-83-2 | Batch No. | 2025021901 |
| Molecular Formula | C ₂₂ H ₃₄ N ₄ O ₆ S | Date of Producing | 2025/03/09 |
| Molecular Weight | 4730.91 | Retest Date | 2027/03/08 |
| Date of Survey | 2025/03/19 | Specification | 10mg/vial |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|------------------------------|---------------------------------|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤8.0% | 3.5% |
| Sodium salt | ≤5.0% | 1.7% |
| Peptide Purity (By HPLC) | ≥98.0% | 99.6% |
| Related Substance (By HPLC) | Total Impurities(%)≤2.0% | 0.4% |
| | Largest Single Impurity(%)≤1.0% | 0.1% |
| Organic solvent residue | Acetonitrile≤0.041% | <0.041% |
| | Dichloromethane≤0.060% | <0.060% |
| | N,N-Dimethylformamide≤0.088% | <0.088% |
| Assay | 95%-105% | 100.2% |

Conclusion:the product conforms with enterprise standard and qualified

The product is for compliant use only.

Analyst:Cheng Diya QC.Directdr:Ling Cheng



Certificate of Analysis

| | | | |
|--------------------------|------------|-----------------------|--------------|
| Product Name | Selank | Batch No. | 2025091201-1 |
| Date of Producing | 2025/09/29 | Date of Survey | 2025/10/05 |
| Retest Date | 2027/09/28 | Specification | 5mg |

| TEST | SPECIFICATION | RESULT |
|---|--|-------------------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Assay | 95%-105% | 100.03% |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 2.4% |
| Acetic Acid(By HPLC) | $\leq 15.0\%$ | 13.7% |
| Peptide Purity (By HPLC) | $\geq 95.0\%$ | 99.7% |
| Related Substance (By HPLC) | Total Impurities($\%$) $\leq 5.0\%$ | 0.3% |
| | Largest Single Impurity($\%$) $\leq 2.0\%$ | 0.1% |
| Bacterial endotoxin | only . $<10\text{EU/mg}$ | $<10\text{EU/mg}$ |

The product is for compliant use

Certificate of Analysis

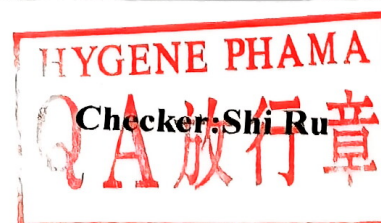
| | | | |
|---------------------------|---|--------------------------|------------|
| Product Name | Semaglutide | | |
| Molecular Formula | C ₁₈₇ H ₂₉₁ N ₄₅ O ₅₉ | Batch No. | 2025031502 |
| Molecular Weight | 4113.58 | Date of Producing | 2025/03/16 |
| Date of Survey | 2024/03/17 | Expire Date | 2027/03/15 |
| Reference Standard | Enterprise Standard | Specification | 10mg/vial |

| TEST | SPECIFICATION | RESULT |
|--|----------------------------------|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤ 8.0% | 5.2% |
| Sodium salt | ≤ 5.0% | 2.4% |
| Amino Acid Composition | His: 0.9-1.1 | 1.1 |
| | Asp:0.9-1.1 | 1.1 |
| | Ala: 2.7-3.3 | 3.0 |
| | Val :1.8-2.2 | 2.1 |
| | Glu :4.5-5.5 | 4.9 |
| | Leu :1.8-2.2 | 2.0 |
| | Gly :3.6-4.4 | 3.9 |
| | Lys: 0.9-1.1 | 1.1 |
| | Thr: 1.8-2.2 | 2.1 |
| | Ile : 0.9-1.1 | 1.1 |
| | Phe: 1.8-2.2 | 2.0 |
| | Arg :1.8-2.2 | 2.0 |
| | Ser :2.7-3.3 | 2.9 |
| | Tyr: 0.9-1.1 | 1.1 |
| | Aib:Det | Det |
| AEEA: Det | Det | |
| Peptide Purity (By HPLC) | ≥98.0% | 99.8% |
| Related Substance (By HPLC) | Total Impurities(%) ≤2.0% | 0.2% |
| | Largest Single Impurity(%) ≤1.0% | 0.2% |
| Assay | 95%-105% | 100.2% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst:Wan Dongmei

QC Director: Ling Cheng



Certificate of Analysis

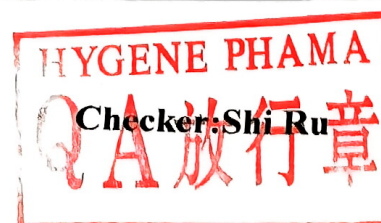
| | | | |
|---------------------------|---|--------------------------|------------|
| Product Name | Semaglutide | | |
| Molecular Formula | C ₁₈₇ H ₂₉₁ N ₄₅ O ₅₉ | Batch No. | 2025031502 |
| Molecular Weight | 4113.58 | Date of Producing | 2025/03/16 |
| Date of Survey | 2024/03/17 | Expire Date | 2027/03/15 |
| Reference Standard | Enterprise Standard | Specification | 10mg/vial |

| TEST | SPECIFICATION | RESULT |
|--|----------------------------------|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤ 8.0% | 5.2% |
| Sodium salt | ≤ 5.0% | 2.4% |
| Amino Acid Composition | His: 0.9-1.1 | 1.1 |
| | Asp:0.9-1.1 | 1.1 |
| | Ala: 2.7-3.3 | 3.0 |
| | Val :1.8-2.2 | 2.1 |
| | Glu :4.5-5.5 | 4.9 |
| | Leu :1.8-2.2 | 2.0 |
| | Gly :3.6-4.4 | 3.9 |
| | Lys: 0.9-1.1 | 1.1 |
| | Thr: 1.8-2.2 | 2.1 |
| | Ile : 0.9-1.1 | 1.1 |
| | Phe: 1.8-2.2 | 2.0 |
| | Arg :1.8-2.2 | 2.0 |
| | Ser :2.7-3.3 | 2.9 |
| | Tyr: 0.9-1.1 | 1.1 |
| | Aib:Det | Det |
| AEEA: Det | Det | |
| Peptide Purity (By HPLC) | ≥98.0% | 99.8% |
| Related Substance (By HPLC) | Total Impurities(%) ≤2.0% | 0.2% |
| | Largest Single Impurity(%) ≤1.0% | 0.2% |
| Assay | 95%-105% | 100.2% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst:Wan Dongmei

QC Director: Ling Cheng



HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

| | | | |
|--------------------|--|----------------------|------------|
| Product Name | Pentadecapeptide BPC157+Arg | | |
| CASNo. | — | Batch No. | 2025021101 |
| Molecular Formula | C ₆₂ H ₉₅ N ₁₆ O ₂₂ · C ₆ H ₁₄ N ₄ O ₂ | Date of Producing | 2025/02/26 |
| Molecular Weight | 1593.74 | Retest Date | 2027/02/25 |
| Date of Survey | 2025/03/03 | Condition of Storage | 10mg/vial |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|---|-----------------------------------|----------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤10.0% | 3.9% |
| Acetic Acid (By HPLC) | ≤0.5% | 0.3% |
| Arg Content | 10.9±1.0% | 10.2% |
| Peptide Purity (By HPLC) | ≥98.0% | 99.6% |
| Related Substance (By HPLC) | Total Impurities (%) ≤2.0% | 0.4% |
| | Largest Single Impurity (%) ≤1.0% | 0.2% |
| Organic Solvent Residue | Acetonitrile ≤0.041% | <0.041% |
| | Dichloromethane ≤0.060% | <0.060% |
| | N, N-Dimethylformamide ≤0.088% | <0.088% |
| Bacterial Endotoxins | <10EU/mg | <10EU/mg |
| Assay | 95%–105% | 100.1% |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only

Analyst: Hou Jieling

QC Director: Ling Cheng

Checker: Shi Ru



HYGENEPHARMA COMPANY LIMITED

Certificate of Analysis

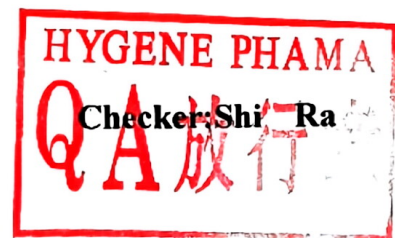
| | | | |
|--------------------|---|-------------------|------------|
| Product Name | Retatrutide | | |
| CAS No. | 2381089-83-2 | Batch No. | 2025021901 |
| Molecular Formula | C ₂₂ H ₃₄ N ₄ O ₆ S | Date of Producing | 2025/03/09 |
| Molecular Weight | 4730.91 | Retest Date | 2027/03/08 |
| Date of Survey | 2025/03/19 | Specification | 10mg/vial |
| Reference Standard | Enterprise Standard | | |

| TEST | SPECIFICATION | RESULT |
|------------------------------|---------------------------------|---------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Water Content (Karl Fischer) | ≤8.0% | 3.5% |
| Sodium salt | ≤5.0% | 1.7% |
| Peptide Purity (By HPLC) | ≥98.0% | 99.6% |
| Related Substance (By HPLC) | Total Impurities(%)≤2.0% | 0.4% |
| | Largest Single Impurity(%)≤1.0% | 0.1% |
| Organic solvent residue | Acetonitrile≤0.041% | <0.041% |
| | Dichloromethane≤0.060% | <0.060% |
| | N,N-Dimethylformamide≤0.088% | <0.088% |
| Assay | 95%-105% | 100.2% |

Conclusion:the product conforms with enterprise standard and qualified

The product is for compliant use only.

Analyst:Cheng Diya QC.Directdr:Ling Cheng



Certificate of Analysis

| | | | |
|---------------------------|------------------------------|--------------------------|------------|
| Product Name | Tirzepatide | | |
| Molecular Formula | $C_{225}H_{348}N_{48}O_{68}$ | Batch No. | 2025031503 |
| Molecular Weight | 4813.45 | Date of Producing | 2025/03/19 |
| Date of Survey | 2025/03/20 | Expire Date | 2027/03/18 |
| Reference Standard | Enterprise Standard | Specification | 10mg/vial |

| TEST | SPECIFICATION | RESULT |
|--|--|-------------|
| Appearance | White to off white powder or loose lump | Conform |
| Solubility | Soluble in 50% aqueous acetonitrile | Conform |
| Identity By MS | 4813.45 ± 2.0 | 4812.2 |
| Water Content(Karl Fischer) | $\leq 10.0\%$ | 2.9% |
| Sodium ion | $\leq 3.0\%$ | 1.7% |
| Peptide Purity(By HPLC) | $\geq 98.0\%$ | 99.4% |
| Related Substance(By HPLC) | Total Impurities($\%$) $\leq 2.0\%$ | 0.6% |
| | Largest Single Impurity($\%$) $\leq 1.0\%$ | 0.2% |
| Assay | 95%-105% | 100.2% |
| Organic solvent residue | Acetonitrile $\leq 0.041\%$ | $< 0.041\%$ |
| | Dichloromethane $\leq 0.06\%$ | $< 0.06\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $< 0.088\%$ |
| Conclusion: the product conforms with enterprise standard and qualified | | |

The product is for compliant use only.

Analyst: Yang Yan

QC Director: Sun Xiaoyang



CERTIFICATE OF ANALYSIS

质 检 报 告 单

Product Information

产品信息

规格: 0.1g/袋

批号: 20250101

检测日期: 2025-1-10

Product Name: Recombinant Human Long Arg3 insulin-like growth factor-1

名称: 重组人胰岛素样生长因子 1 类似物

Storage at: Airtight, 2-8°C Preservation

储存: 密闭, 2-8°C 保存

Quality Control

质量控制

| Test Items | Specifications | Results |
|---------------------|--------------------------|---------------------------|
| 检测项目 | 标准 | 结果 |
| Physical Appearance | White powder | Conformed |
| 外观 | 白色粉末 | 符合规定 |
| Purity (SDS-PAGE) | No Visible Impurity Band | Conformed |
| 电泳纯度 | 无可见杂带 | 符合规定 |
| Purity (RP-HPLC) | >95.0% | 97.3% |
| 液相纯度 | >95.0% | 97.3% |
| Molecular Weight | 9111±2Da | 9112 Da |
| 分子量 | 9111±2Da | 9112 Da |
| Bacterial Endotoxin | <5EU/mg | <5 EU/mg |
| 细菌内毒素 | <5EU/mg | <5 EU/mg |
| Cellular activity | >1×10 ⁶ IU/mg | 5.0×10 ⁶ IU/mg |
| 细胞活性 | >1×10 ⁶ IU/mg | 5.0×10 ⁶ IU/mg |
| pH | 6.5-7.5 | 7.1 |
| Content | Labelled Amount ±10% | Conformed |
| 装量 | 标示量的±10% | 符合规定 |



Certificate of Analysis

| | |
|---------------------|--|
| Product name | semax |
| Molecular Formula | C ₃₇ H ₅₁ N ₉ O ₁₀ S |
| Molecular Weight | 813.92 |
| Batch No. | 20250807-2 |
| Quantity | 524.0g |
| Specification | 5mg |
| Manufacturing Date | Aug.07, 2025 |
| Expiry Date | Aug.06, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|----------------------|----------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW: 813.92 | Complies |
| Purity (HPLC) | ≥98.0% | 99.08% |
| Peptide Content (N%) | ≥80.0% | 92.45% |
| Water (K.F.) | ≤ 7.0% | 2.43% |
| Acetic acid content | ≤ 15.0% | 3.73% |
| Assay | 95%-105% | 100.02% |
| Solubility | ≥2mg/ml (H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-09-02

Inspector:lukangmei

2025-09-02

Certificate of Analysis

| | | | |
|--------------------------|------------|-----------------------|--------------|
| Product Name | Sermorelin | Batch No. | 2025090201-1 |
| Date of Producing | 2025/09/18 | Date of Survey | 2025/09/23 |
| Retest Date | 2027/09/17 | Specification | 10mg |

| TEST | SPECIFICATION | RESULT |
|---|---|-------------------|
| Appearance | White or almost white powder | Conform |
| Solubility | Soluble in water | Conform |
| Assay | 95%-105% | 100.02% |
| Water Content (Karl Fischer) | $\leq 8.0\%$ | 4.3% |
| Acetic Acid (By HPLC) | $\leq 15.0\%$ | 7.3% |
| Peptide Purity (By HPLC) | $\geq 98.0\%$ | 99.3% |
| Related Substance (By HPLC) | Total Impurities($\leq 2.0\%$) | 0.7% |
| | Largest Single Impurity($\leq 1.0\%$) | 0.3% |
| Organic Solvent Residue | Acetonitrile $\leq 0.041\%$ | $<0.041\%$ |
| | Dichloromethane $\leq 0.060\%$ | $<0.060\%$ |
| | N,N-Dimethylformamide $\leq 0.088\%$ | $<0.088\%$ |
| Bacterial endotoxin | only. $<10\text{EU/mg}$ | $<10\text{EU/mg}$ |

The product is for compliant use only.

Certificate of Analysis

| | |
|---------------------|---|
| Product name | TB500 |
| Molecular Formula | C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S |
| Molecular Weight | 4963.44 |
| Batch No. | 20250716-2 |
| Quantity | 98.0g |
| Manufacturing Date | Jul.16, 2025 |
| Expiry Date | Jul.15, 2027 |
| Store at | Keep in dark and cool dry place |

| Items | Standards | Results |
|-----------------------|----------------------------|----------------|
| Appearance | White to off-white powder | Complies |
| Identity by MS | Theoretical MW: 4963.44 | Complies |
| Purity (HPLC) | ≥ 99.0% | 99.44% |
| Peptide Content(By N) | ≥80.0% | 87.67% |
| Water (K.F.) | ≤7.0% | 3.77% |
| Acetic acid content | ≤15.0% | 4.72% |
| Solubility | ≥2mg/ml(H ₂ O) | Complies |
| Conclusion | Conforms to standard | Complies |

Notes: for research use only

Q. C. Manager:xiqing

2025-09-04

Inspector: Lukangmei

2025-09-04