

### Certificate of analysis

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|                               |      |  |   |
|-------------------------------|------|--|---|
| Product Name                  |      | Retatrutide  |   |
| Catalog No.                   |      | C6015  | Batch No. AR0763RT4   |
| Sequence                      |      | Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{a-Me-Leu}-Leu-Asp-Lys-{diacid-C20-gamma-Glu-(AEEA)-Lys}-Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Ser-NH <sub>2</sub> |   |
| Manufacturing Date            |      | 2025.04.17   | Received Date 2025.04.17  |
| Report Date                   |      | 2025.04.18   | Retest Date 2027.04.16  |
| Test Reference                |      | In-house specification/Protocol specification  |   |
| Test Items                    |      | Specification  | Results   |
| Appearance                    |      | White to off white powder or loose lump  | Conforms  |
| Solubility                    |      | Soluble in 50% aqueous acetonitrile  | Conforms  |
| Amino acid analysis           |      | Tyr(2.4-3.2) Aib(1.6-2.4) Glu (4.0-6.0) Gly(3.2-4.8)<br>Thr(1.6-2.4) Phe(1.6-2.4) Ser(4.0-6.0) Asp(1.6-2.4)<br>Ile(1.6-2.4) Leu(2.4-3.6) Lys(1.6-2.4) Ala(2.4-3.6)<br>Pro(3.2-4.8) AEEA(0.8-1.2)                 | Tyr(3.1) Aib(2.0) Glu(5.4)<br>Gly(4.3) Thr(1.9) Phe(2.1)<br>Ser(5.3) Asp(2.1) Ile(2.0)<br>Leu(3.1) Lys(1.9) Ala(3.2)<br>Pro(4.2) AEEA(1.0)  |
| Identification                | HPLC | The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution                          | The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution |
|                               | MS   | 4731.33±1.0  | 4731.92   |
| Clarity and color of solution |      | Clear and colorless  | Conforms  |
| Water                         |      | ≤10.0%   | 4.1%  |
| pH                            |      | 6.0~9.0  | 6.50  |
| Acetic acid                   |      | ≤0.5%  | N.D   |



| Test Items                  | Specification   | Results  |
|-----------------------------|---|--|
| Trifluoroacetate ion        | $\leq 0.1\%$  | N.D  |
| Sodium ion                  | $\leq 3.0\%$  | 1.6%   |
| Related Substances (HPLC)   | Any individual impurity: $\leq 1.0\%$<br>Total impurity: $\leq 2.0\%$   | 0.28%<br>0.62%   |
| Purity                      | $\geq 98\%$   | 99.38%   |
| Residual solvents           | Methanol: $\leq 0.3\%$<br>Isopropanol: $\leq 0.5\%$<br>Acetonitrile: $\leq 0.041\%$<br>Methylene chloride: $\leq 0.06\%$<br>N,N-Dimethylformamide: $\leq 0.088\%$<br>Triethylamine: $\leq 0.032\%$<br>Tert-butyl methyl ether: $\leq 0.5\%$                     | Methanol: N.D<br>Isopropanol: N.D<br>Acetonitrile: 0.021%<br>Methylene chloride: N.D<br>N,N-Dimethylformamide: N.D<br>Triethylamine: N.D<br>Tert-butyl methyl ether: N.D |
| Bacterial endotoxin         | $< 10 \text{ EU/mg}$  | Conforms   |
| Microbiological Examination | TAMC: NMT 100cfu/g  | Less than 10cfu/g  |
|                             | TYMC: NMT 50cfu/g   | Less than 10cfu/g  |
|                             | Escherichia coli: Absent  | Absent   |
| Peptide Assay               | $\geq 80.0\%$   | 93.69%   |
| Packaging and storage       | Store at a temperature of 2~8°C, protected from light.  |  |
| Conclusion                  | The test results comply with the requirements of in-house specification.  |  |
| Remark                      | This analysis applies to the active pharmaceutical ingredient (API) incorporated in Alluvi's 40mg and 20mg Retatrutide pre-filled injection pens. The product is aseptically filled, sealed under sterile conditions, and packaged for controlled distribution. |  |

