



# Wuhan Yingnuo Technology Co., Ltd.

Room 2105c, 21st Floor, World Trade Building, Jiangnan District, Wuhan, Hubei, China

## Certificate of Analysis

|                      |  |                 |              |
|----------------------|--|-----------------|--------------|
| 产品名称<br>Product Name | Tirzepatide  | CAS No.:        | 2023788-19-2 |
| 盐类型<br>Salt Type     | Na <sup>+</sup>  | 批号<br>Batch No. | P240412      |
| 序列<br>Sequence       | Tyr- {Aib}-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile- {Aib}-Leu-Asp-Lys-Ile-Ala-Gln- {di acid-gamma-Glu-(AEEA)2-Lys}-Ala-Phe-Val-Gln-Trp-Leu-Ile-Ala-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH <sub>2</sub> |                 |              |

| Test<br>检测项目                         | Specification<br>标准   | Result<br>结果  |
|--------------------------------------|---|---|
| 外观<br>Appearance                     | 白色或灰白色粉末<br>White or off-white powder   | Conforms  |
| 溶解性<br>Solubility                    | Soluble in H <sub>2</sub> O   | Conforms  |
| 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 |
| 澄清度<br>Clarity and color of solution | 无色澄清<br>Clear and colorless   | Conforms  |
| 分子量<br>Mass Spectrum                 | 4813.45±1.0   | 4814.40   |
| 纯度<br>Purity(HPLC)                   | ≥98%  | 99.35%  |
| 水分<br>Water                          | ≤ 10.0%   | 3.5%  |
| 醋酸含量<br>Acetic acid                  | ≤ 5.0%  | N.D   |
| 钠离子<br>Sodium ion                    | ≤3.0%   | 2.3%  |
| 细菌内毒素<br>Bacterial endotoxin         | <10EU/mg  | Conforms  |
| Residual solvents<br>残留溶剂            | Methanol: ≤ 0.3%<br>Isopropanol: ≤ 0.5%<br>Acetonitrile: ≤ 0.041%<br>Methylene chloride: ≤ 0.06%<br>N,N-Dimethylformamide: ≤ 0.088%<br>Tert-butyl methyl ether: ≤ 0.5%                  | Methanol: N.D<br>Isopropanol: N.D<br>Acetonitrile: 0.025%<br>Methylene chloride: N.D<br>N,N-Dimethylformamide: N.D<br>Tert-butyl methyl ether: N.D                                      |

|                                |  |          |
|--------------------------------|--|----------|
| 肽含量<br>Peptide Assay           | ≥90.0%   | Conforms |
| 包装和储存<br>Packaging and storage | 2~8℃， 遮光保存。<br>Store at a temperature of 2~8℃, protected from light.                       |          |
| 结论<br>Conclusion               | 检测结果与内控质量标准相符。<br>The test results comply with the requirements of in-house specification. |          |
| 备注<br>Remark                   | 仅作为化工产品供应。<br>It is only supplied as chemical product.                                     |          |

**\*Note: this product is intended for research use only; not for diagnostic or human use.**

**\*Important: Stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated.**

起草/日期

复核/日期

批准/日期

Prepared by/Date

Reviewed by/Date

Approved by/Date

April 25, 2024

April 25, 2024

April 25, 2024

