

Current Batch Certificate of Analysis

RESEARCH USE ONLY      Public batch: PEP260702-KP10

Certificate of Analysis

|                                |                                                                                                                                                                                          |                       |                              |             |                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|-------------|----------------|
| 品 名                            | Product                                                                                                                                                                                  | LYSINE-PROLINE-VALINE | 批 号                          | Batch       | PEP260702-KP10 |
| CAS                            | NO.                                                                                                                                                                                      | 66777- 42- 2          | 数 量                          | Quantity    | 10mg           |
| 生产日期                           | Mfg Date                                                                                                                                                                                 | 2026-07-02            | 复检期                          | Retest Date | 2028-07-01     |
| 检验日期                           | Test Date                                                                                                                                                                                | 2026-07-10            | 标 准                          | Standard    | In house       |
| 包装形式                           | 3ML 西林瓶冻干粉包装                                                                                                                                                                             |                       |                              |             |                |
| Packaging                      | 3ML vial lyophilized powder                                                                                                                                                              |                       |                              |             |                |
| TestItem                       | AcceptanceCriteria                                                                                                                                                                       |                       | TestResult                   |             |                |
| 检测 项目                          | 可接受标准                                                                                                                                                                                    |                       | 检验结果                         |             |                |
| Appearance                     | White or off-white powder                                                                                                                                                                |                       | white powder                 |             |                |
| 性状                             | 白色或类白色粉末                                                                                                                                                                                 |                       | 白色粉末                         |             |                |
| Solubility                     | Soluble or freely soluble in water                                                                                                                                                       |                       | freely soluble in water      |             |                |
| 溶解度                            | 在水中溶解或易溶                                                                                                                                                                                 |                       | 易溶于水                         |             |                |
| Average Molecular Weight       | 342. 44±1. 0Da                                                                                                                                                                           |                       | 343. 15Da                    |             |                |
| 平均分子量                          |                                                                                                                                                                                          |                       |                              |             |                |
| Chromatographic Identification | The retention time of the main peak of Sample Solution should be consistent with that of the Standard solution, as obtained in the Assay<br>在含量测定项下记录的色谱图中，供试品溶液主峰的保 留时间应与对照品溶液主峰的保留时间一致 |                       | Meet the requirement<br>符合规定 |             |                |
| 色谱鉴别                           |                                                                                                                                                                                          |                       |                              |             |                |
| PH                             | 4. 5-6. 5                                                                                                                                                                                |                       | 5. 1                         |             |                |
| Clarity and Color of Solution  | Clarity: Clear transparent solution, free from turbidity, precipitate and insoluble particles.                                                                                           |                       | Colour:Colorless, clear      |             |                |
| 溶液的澄清度与颜色                      | 应澄清无色                                                                                                                                                                                    |                       | 符合要求                         |             |                |
| Chromatographic Purity         | NLT98. 0%<br>不小于 98. 0%                                                                                                                                                                  |                       | 99. 23%                      |             |                |
| 色谱纯度                           |                                                                                                                                                                                          |                       |                              |             |                |
| Related Substances             | Maximum unknown single impurity NMT 0. 5%                                                                                                                                                |                       | 0. 19%                       |             |                |
| 有关物质                           | 最大未知单杂不得过 0. 5%                                                                                                                                                                          |                       |                              |             |                |
| High Molecular Weight Proteins | NMT0. 8%                                                                                                                                                                                 |                       | 0. 05%                       |             |                |
| 高分子蛋白质                         |                                                                                                                                                                                          |                       |                              |             |                |
| Water Content                  | NMT 3. 0%                                                                                                                                                                                |                       | 1. 27%                       |             |                |
| 水分                             |                                                                                                                                                                                          |                       |                              |             |                |

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| TestItem                     |                             | AcceptanceCriteria                                                    |     | TestResult                   |                |
| 检测项目                         |                             | 可接受标准                                                                 |     | 检验结果                         |                |
| Heavy Metals 重金属             |                             | NMT 10ppm                                                             |     | 均未检出 ND                      |                |
| Residual Solvents<br>残留溶剂    |                             | Methanol NMT 3000ppm<br>甲醇不得过 3000ppm                                 |     | 76ppm                        |                |
|                              |                             | Acetonitrile NMT 410ppm<br>乙腈不得过 410ppm                               |     | 34ppm                        |                |
|                              |                             | Dichloromethane NMT 600ppm                                            |     | 40ppm                        |                |
|                              |                             | 二氯甲烷不得过 600ppm                                                        |     |                              |                |
|                              |                             | N,N-Dimethylformamide NMT 880ppm<br>N,N-二甲基甲酰胺不得过 880ppm              |     | 12ppm                        |                |
|                              |                             | Total Aerobic Microbial Count NMT100 cfu/g<br>需氧菌总数应不得过 100cfu/g      |     | Meet the requirement<br>符合要求 |                |
| Microbial Limit<br>微生物限度     |                             |                                                                       |     |                              |                |
| Bacterial Endotoxin<br>细菌内毒素 |                             | ≤0.5 EU/mg                                                            |     | 0.18EU/mg                    |                |
| Peptide Content<br>肽含量       |                             | 95.0%~105.0%(On Anhydrous and Sodium Free)<br>95.0%~105.0%(以无水、无钠离子计) |     | 103.2%                       |                |
| Assay<br>含量                  |                             | 9.5mg~10.5mg                                                          |     | 10.32mg                      |                |
| Conclusion<br>结论             |                             | Meets specification                                                   |     |                              |                |