

## 检测报告 CERTIFICATE OF ANALYSIS

|                            |                                                                                |                        |                           |
|----------------------------|--------------------------------------------------------------------------------|------------------------|---------------------------|
| 产品名称 Product name:         | 胞磷胆碱 Citicoline                                                                |                        |                           |
| CAS No.:                   | 987-78-0                                                                       | 参考标准<br>Ref. Standard: | 企业标准<br>In-house Standard |
| 批号 Batch No.:              | 20250911                                                                       | 生产日期 Manuf. Date:      | Sep. 11, 2025             |
| 数量 Quantity :              | 100kg                                                                          | 有效期至 Expiration Date:  | Sep. 10, 2027             |
| 储存条件<br>Storage Condition: | 保存在密闭容器中，室温控制。<br>Preserve in tight containers at controlled room temperature. |                        |                           |

| 项目 ITEM                                 | 标准 SPECIFICATION                                                    | 结果 RESULTS                         |
|-----------------------------------------|---------------------------------------------------------------------|------------------------------------|
| 纯度 Purity(HPLC)                         | $\geq 99.0\%$                                                       | 99.83%                             |
| 5'-胞苷酸<br>Cytidine-5'-monophosphate     | $\leq 1.0\%$                                                        | 符合 Conforms                        |
| 外观 Appearance                           | 白色结晶或结晶粉末，无臭<br>A white crystalline or crystalline powder, odorless | 白色结晶粉末<br>White crystalline powder |
| 理化指标 Physical & Chemical Characteristic |                                                                     |                                    |
| 粒度 Particle Size                        | 100% pass 20 mesh                                                   | 符合 Conforms                        |
| 澄清度与颜色<br>Clarity and color             | 无色，澄清 Colorless to clarify                                          | 符合 Conforms                        |
| pH                                      | 2.5~3.5                                                             | 3.20                               |
| 干燥失重 Loss on drying                     | $\leq 5.0\%$                                                        | 1.97%                              |
| 堆积密度 Bulk Density                       | 0.4-0.5g/cm <sup>3</sup>                                            | 符合 Conforms                        |
| 重金属 Heavy metals                        | $\leq 10\text{ppm}$                                                 | 符合 Conforms                        |
| 微生物指标 Microorganism Tests               |                                                                     |                                    |
| 菌落总数 Total plate count                  | $\leq 1000\text{cfu/g}$                                             | 符合 Conforms                        |
| 酵母&霉菌 Yeast & molds                     | $\leq 100\text{cfu/g}$                                              | 符合 Conforms                        |
| 大肠杆菌 Escherichia coli                   | 阴性 Negative/10g                                                     | 阴性 Negative                        |
| 结论 Conclusion:                          | 符合企业标准 Conforms to the In-house Standard.                           |                                    |

Tested by: Tiantian Wang

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质检专用章

DEDICATED SEAL FOR QUALITY INSPECTION