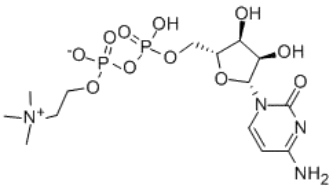




CERTIFICATE OF ANALYSIS

| | | | |
|-------------------|---|--|-------------------|
| Product name: | Citicoline |  | |
| CAS No.: | 987-78-0 | | |
| Molecular formula | C ₁₄ H ₂₆ N ₄ O ₁₁ P ₂ | Batch No. | MLP-CDPC-20230105 |
| Manufacture date: | 2023.01.05 | Report date: | 2023.01.12 |
| Quantity: | 1000kg | Retest date: | 2025.01.04 |

| Testing Items | Specifications | Results |
|------------------------|--------------------------|----------|
| Appearance | White crystalline powder | Conforms |
| Clarity and color | Colorless and clear | Conforms |
| PH | 2.5-3.5 | 3.1 |
| Particle Size | 100% pass 20 mesh | Conforms |
| 5'-CMP | ≤1.0% | 0.24% |
| Ammonium | ≤0.05% | Conforms |
| Free phosphoric acid | ≤0.01% | Conforms |
| Loss in mass on drying | ≤5.0% | 2.9% |
| Heavy metals | | |
| Heavy metals total | ≤10ppm | Conforms |
| Arsenic (As) | ≤2ppm | Conforms |
| Lead (Pb) | ≤3ppm | Conforms |
| Cadmium (Cd) | ≤1ppm | Conforms |

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www.mylandpharm.com

| | | |
|-----------------------------|--|----------|
| Mercury (Hg) | ≤0.1ppm | Conforms |
| Microbiology control | | |
| Total plate count | ≤1,000 cfu/g | Conforms |
| Fungi count | ≤100 cfu/g | Conforms |
| Total yeast & molds | ≤100 cfu/g | Conforms |
| Total coliforms | ≤10 cfu/g | Conforms |
| Escherichia coli | Negative/10g | Conforms |
| Salmonella species | Negative/25g | Conforms |
| Staphylococcus aureus | Negative/g | Conforms |
| Assay (by HPLC) | 98.0%--102% | 99.94% |
| Purity (HPLC) | ≥99.0% | 99.67% |
| Storage | Easy to absorb moisture and agglomerate. Store in cool and dry place. | |
| Conclusion | Meet the specifications. | |

ANALYST:

检 1

CHECKER:

检 2

Q.C. DIRECTOR:



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