



Certificate of Analysis

| | | | |
|-----------------|-------------|-------------------|--------------|
| Product Name: | D-Panthenol | Manufacture Date: | Jan.05, 2022 |
| Batch Number: | LY220105 | Certificate Date: | Jan.05, 2022 |
| Batch Quantity: | 559 Kg | Expiration Date | Jan.05, 2024 |

| Items | Specifications | Results |
|---------------------------|---|--------------|
| Appearance | Well-dispersed white powder | Conforms |
| Identification | 1. Infrared absorption 2. Cupric sulfate TS 3. Ferric chloride TS | Conforms |
| Assay | 99.0%-102.0% | 99.9% |
| Residue on ignition | ≤0.1% | 0.02% |
| Aminopropanol | ≤0.1% | 0.01% |
| Melting point | 64.5-68.5 °C | 65.1-67.1 °C |
| Optical rotation | -0.05-+0.05 | Conforms |
| Loss on drying | ≤0.5% | 0.2% |
| Heavy metal | ≤10ppm | Conforms |
| Residue solvent (class 3) | ≤0.5% | Conforms |

| | |
|------------|---|
| Conclusion | Conform with USP 36 Standard. |
| Storage | Store in cool & dry place. Do not freeze. |
| | Keep away from strong light and heat. |
| Shelf life | 2 years when properly stored |

Quality Assurance Officer: 董文华

Corrector: 王君

Analyst: 李丽

