



武汉福鑫化工有限公司

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CERTIFICATE OF ANALYSIS

| | | |
|----------------------|---------------------------|-------------------|
| Product: Artemisinin | Mfg. date: Jun., 15, 2024 | Lot No.: 20240615 |
| CAS NO. 63968-64-9 | Exp. date: Jun., 14, 2026 | Quantity: 100kg |

| Items | Specifications | Results |
|---------------------------|--|-----------|
| Appearance | White to off-white crystalline powder | Conforms |
| Melting point | 150~153°C | 152~153°C |
| Specific optical rotation | +75° ~+78° | +76.8° |
| Color reaction | A purple color is produced | Conforms |
| Color reaction | A deep violet-red color is produced | Conforms |
| HPLC | The retention time of main peak in test preparation should match with that of the working standard as obtained from assay by HPLC test | Conforms |
| IR | The infrared absorption spectrum of the product should be consistent with the map of the reference substance (220 sets of spectra) | Conforms |
| Related substances | Single impurity $\leq 3.0\%$ | 1.5% |
| | Total impurities $\leq 5.0\%$ | 1.6% |
| Loss on drying | $\leq 0.5\%$ | 0.1% |
| Residue on ignition | $\leq 0.1\%$ | 0.02% |
| Assay | 98.0%~102.0% | 100.0% |
| Conclusion | The product conforms to above standard. | |

QC:



Tester:



Re-tester:

