

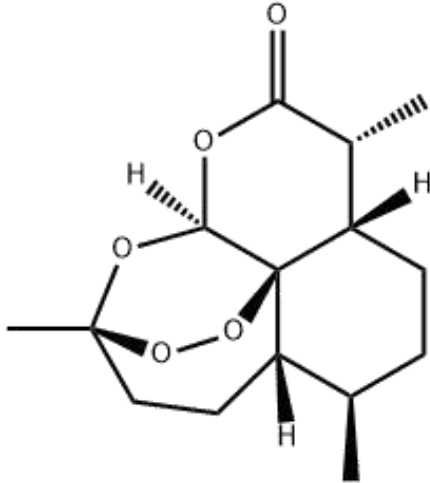


Wuhan HengHeDa Pharm Co., Ltd

Tel:86-27-84888681 Fax:86-27-84888682

Wuhan Economic& Technological Development Zone, Wuhan, China

CERTIFICATE OF ANALYSIS

Product name	Artemisinin	
CAS NO	63968-64-9	
Molecular formula	C ₁₅ H ₂₂ O ₅	
Molecular weight	282.33	
Quantity	500KG	
Batch NO	HHD20220421	
Production date	2022.04.21	
Expiry Date	2024.04.20	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	White to Off -white crystalline powder	Conforms
Solubility	Freely soluble in acetone and in glacial acetic acid, soluble in methanol, ethanol,dilute ethanol, ether or petroleum ether,practically insoluble in water	Conforms
Melting point	150~153℃	152~153℃
Specific optical rotation	+75° ~ +78°	+75.5°
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 of 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 $\leq 3.0\%$ Total Impurities $\leq 5.0\%$	1.30% 1.40%
Loss on Drying	$\leq 0.5\%$	0.10%
Residue on Ignition	$\leq 0.1\%$	0.01%
Assay	98.0% ~ 102.0%	99.8%

Storage	Store in cool & dry place, keep away from strong light and heat.	
Shelf life	2 years when properly stored.	
Conclusion: This product complies with above specification		

Inspector
Shen Wu

Director
King Yang

