

## 西安康诺化工有限公司 Kono Chem Co., Ltd

**Certificate of Analysis** 

Product Name	ARTEMISININ	Manufacturing Date	20210203
Batch No.	KN20210203	Test Date	20210215
Quantity	1000KG	Expiry Date	20230202

Items	Requirements	Results	
Description			
Appearance:	White to Off-white crystalline powder.	Conforms	
	Freely soluble in acetone and in glacial acetic acid,		
Solubility	soluble in methanol, ethanol, dilute ethanol, ether		
	or petroleum ether, practically insoluble in water		
Melting point	150∼153℃	<b>150.9-151.8℃</b>	
Specific optical	+75°∼+78°	+77.1°	
rotation	+/5 /~+/8		
Identification			
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	Conforms	
	from assay by HPLC test		
IR	The IR spectrum of the sample should be	Conforms	
	concordant with the IR spectrum of the		
	artemisinin working standard		
Tests			
	Artemisitene≤ 0.15%	0.07%	
Related Substances	9-epimer of artemisinin≤ 0.3%	N.A	
(HPLC)	Any individual impurity≤ 0.15%	0.1%	
	Total impurities≤ 1.0%	0.75%	
Loss on Drying	Not more than 0.5%	0.25%	
Residue on ignition	Not more than 0.1%	0.06%	
Heavy metal			
Lead	Not more than 2ppm	Conforms	
Arsenic	Not more than 1ppm	Conforms	
Mercury	Not more than 0.1ppm	Conforms	
Cadmium	Not more than 0.1ppm	Conforms	
Microbial limits			
Aerobic bacteria count	Not more than 1000cfu/g	Conforms	
Yeast& Mold	Not more than 100cfu/g	Conforms	
Escherichia coli	Negative	Conforms	
Pseudomonas	Nonetine	Conforms	
aeruginosa	Negative		
Staphylococcus aureus	Negative	Conforms	
Assay(HPLC)	98.0% $\sim$ 102.0% (on dried basis)	98.35%	

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