



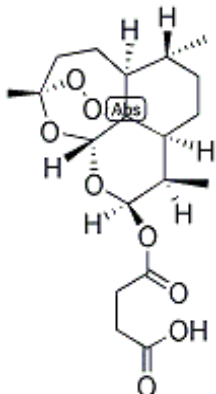
HANGZHOU DINGYAN CHEM CO.,LTD

TEL: 86-571-87157530,86465881,88025800, FAX:86-571-87156470

E-Mail:sales@dingyanchem.com,Web: www.dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DYC081804184

Product name	Artesunate (CP2015)
CAS Number	88495-63-0
Molecule Structure	
Molecule Formula	C ₁₉ H ₂₈ O ₈
Batch number	20180105
Manufacture date	2018-01-05
Testing date	2018-01-05

Items	Standard	Result
appearance	A white crystalline powder; odorless	Qualified
Solubility	Very slightly soluble in water; very soluble in chloroform; freely soluble in ethanol and acetone	Qualified
Specific rotation	+4.5° ~ +6.5°	+5.4°
Thin layer chromatography;	The test solution to reveal the host spot location and color control solution and artesunate agreement under sunlight	Qualified
HPLC	Obtained with the test solution is similar to that of the principal peak in the chromatogram obtained with reference solution	Qualified
Infrared Atlas	The infrared absorption spectrum should be consistent with the control	Qualified
acidity	3.5~4.5	4.2
Clarification and color of solution	should clear the colorless, If it is cloudy, Not more thicker than No. 1 turbidity standard solution	Qualified
chloride	Not more thicker than the control	Qualified

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	solution(not exceeding 0.02%)	
Dihydroartemisinin	≤1.0%	N.A
Artesunate	≤0.5%	N.A
impurity	≤0.2%	0.08%
Other single miscellaneous	≤0.2%	0.05%
Total impurity	≤2.0%	0.14%
water	≤0.5%	0.24%
Burning residue	≤0.1%	0.07%
heavy metal	≤20ppm	Qualified
Bacterial endotoxin	≤1.25EU	Qualified
Content (HPLC)	98%~102.0%	98.3%
Conclusion	The products complies with standard CP2015	

Hangzhou Dingyan Chem Co., Ltd.

QUALITY CONTROL: 
Quality Control

CHECK: 姚仙娟

INSPECTOR: 刘清风