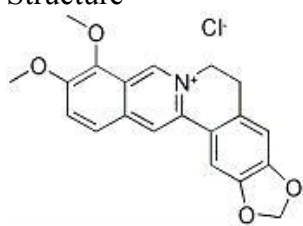


Certificate of Analysis

Basic information		
Product Name	Berberine Hydrochloride	Structure 
CAS No.	633-65-8	
Molecular formula	C ₂₀ H ₁₈ ClNO ₄	
Molecular weight	371.81	
Batch Number	BGYSXBJ200118	
Date of Certificate	Jan. 18, 2021	
Standard Item	Specification	Test Results
Appearance	Yellow Powder	Yellow Powder
Assay	97.0%~101.5% (anhydrous substance).	97.56%
	A.H-NMR:Comply with the structure	Complies
	B.LC-MS:Comply with the structure	Complies
	C.The IR spectrum of sample should be identical with that of reference standard;	Complies
	D.HPLC-ESI-MS The retention time of the major peak in the chromatogram of the Assay preparation corresponds to that in the chromatogram of the Standard preparation, as obtained in the Assay.	Complies
Crystallinity	Meets the requirements.	Complies
Loss on drying	≤5.0%	3.72%
Heavy metals	≤10 ppm	<10ppm
Water	≤1.0%	0.1%
Sulphated ash	≤0.5%, determined on 1.0 g.	0.009%
Related substances	Unspecified impurities: for each impurity	≤0.10% <0.10%
	Total Impurity	≤0.5% 0.18%
NMR	Comply with the structure	Conforms
Microbiological Analysis		
Total plate count	≤1000cfu/g	Complies
Yeast and Moulds	≤100cfu/g	Complies
E. Coli.	Absent	Negative
Salmonella	Absent	Negative
S.aureus	Absent	Negative
Storage	Preserve in well-closed, light-resistant and airtight containers.	
Retest date	Two years under conditions list above	
Conclusion	Conform with Conform with specification	

Quality Assurance Officer: Liuliang

Corrector: Wang jie

Analyst: Qidong

