

## 瑾 岚 医 药 技 术 开 发 有 限 公 司

JINLAN PHARM-DRUGS TECHNOLOGY CO., LIMITED Hangzhou ROYAL Import & Export Co.,Ltd.

## **Certificate of Analysis**

Product Name	Chito	san hydrochloride I	Batch No.:	RY190319
Quantity:	12KG		CAS NO.	70694-72-3
Manufacture Date:	2019.03.19		Expiry Date:	2021.03.18
I t e m		Specification		Analytical Result
Appearance		White or light-yellow, free-flowing powder		Conforms
Bulk density		≥0.25g/ml		0.28g/ml
Appearance of solution		Transparent colorless to light yellow		Conforms
Particle size		Passed 40 mesh		Conforms
PH		4.0 - 6.0		4.3
Deacetylated degree		70%~95.0%		90.35%
Infrared absorption		Meet the standard		Conforms
Chloride testing		Meet the standard		Conforms
Ammonia reaction		Have a large amount of gelatinous material forming		Conforms
Acetone reaction		Have a large amount of gelatinous material forming		Conforms
Matter insoluble in water		≤0.5%		0.11%
Heavy metals		≤20PPM		Conforms
Water		≤10.0%		4.55%
Sulphated ash		≤1.0%		0.10%
Chloride		10%~20%		12.67%
Viscosity		10~120mPa.s(cps)(put 1% Chitosan hcl		12mPa.s
		dissolve in 20°C water solution)		
Microbiological test		Total plate count≤1000CFU/g		600CFU/g
		Yeast and moulds: ≤100CFU/g		#30CFL\g
		Coliforms group ≤30MPN/100g		<30MPN/100g
		Salmonella should not be detected		ARD
		Staphyloccus should not be detected w		N.D.
Standard: it confo	rms to en	terprise standard.	IMIS	

Tested by: Cherry

Checked by: Alice

Approved by: Mich