



Jiangsu Tiansheng Pharmaceutical Co., Ltd

CERTIFICATION OF ANALYSIS

Product Name **18 Beta Glycyrrhetic acid 甘草次酸**

Batch No. G20160101 Production date Jan. 10, 2016

CAS No. 5697-56-3 Test date Jan. 15, 2016

Items	Standards	Results
Appearance	White or almost white crystalline powder	white powder
Specific optical rotation	From +145 to +154(dried substance) dioxin R	+150.1
Infrared absorption	Complies	Complies
TLC	Complies	Complies
Color reaction	Complies	Complies
Appearance of solution	Clear and not more intensely coloured than reference solution Y6	Complies
Heavy metals	NMT20ppm	Complies
Loss on drying	NMT0.5%	0.10%
Sulphated ash	NMT0.2%	0.05%
Related substances	Total:NMT2.0%	0.63%
	any impurity:NMT0.7%	0.25%
Residual ethanol	NMT0.5%	0.06%
Assay(Potentiometry)	98.0-101.0%(dried sustance)	99.4%
QA Director : Jianwei Kan	Checker : Fanbo Kong	Analyst : Juan Xu

Conclusion: The products correspond Ph. Eur. Specify.

Storage: cool, dry, do not freeze.keep away from light and heat.

Shelf life : 5 years if properly seal