



JIANGSU TIANSHENG PHARMACEUTICAL CO.,LTD.
NO.10 BAOHUA DEVELOPMENT ZONE, JURONG, JIANGSU PROVINCE, CHINA
Tel: (86)025-85896139 Fax: (86)025-85896139

CERTIFICATION OF ANALYSIS

Product Name	MONOAMMONIUM GLYCYRRHIZINATE		
Batch No.	G20210702	Quantity	500kgs
Packing	20kgs/drum	Production Date	Jul. 18, 2021
CAS No.	53956-04-0	Expiry Date	Jul. 17, 2026

ITEM	SPECIFICATION	RESULT
CHARACTERS		
Appearance	White or yellowish-white, hygroscopic powder	White powder
Solubility	Complies with the CRS	Complies
IDENTIFICATION		
Infrared spectrum	Corresponding to Reference Spectrum	Complies
Alkaline reaction	Complies with the CRS	Complies
TEST		
Appearance of solution	Clear and not more intensely coloured than reference solution BY7	Complies
Specific optical rotation	From +49.0 to +54.0	+53.0
RELATED SUBSTANCES		
18 α -glycyrrhizic acid	NMT 10.0%	8.6%
Impurity A	NMT 5.0%	4.6%
Any other impurity	NMT 2.0%	1.2%
Sum or other impurities	NMT 7.0 %	6.2%
Heavy Metals	NMT 20ppm	NMT20ppm
Water	NMT 6.0%	4.8%
Sulphated ash	NMT 0.2%	0.06%
Residual ethanol	NMT 0.5%	0.05%
ASSAY		
Ammonium Glycyrrhizate	From 98.0% to 102.0% (anhydrous substance)	100.3%
CONCLUSION		
Complies European Pharmacopoeia 8.0 Standard		

Storage: In an airtight container

QA Director: Jianwei Kan

Checker: Fanbo Kong

Analyst: Wei Zhang