



Unilong Industry Co., Ltd

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CERTIFICATE OF ANALYSIS

Product Name	MONOAMMONIUM GLYCYRRHIZINATE		
Batch No.	G20200401	Quantity	500kgs
Packing	20kgs/drum	Production Date	Apr. 01, 2020
CAS No.	53956-04-0	Expiry Date	Mar. 31, 2025

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	+53.4
RELATED SUBSTANCES		
18 α -glycyrrhizic acid	NMT 10.0%	9.2%
Impurity A	NMT 5.0%	4.5%
Any other impurity	NMT 2.0%	1.5%
Sum or other impurities	NMT 7.0 %	6.1%
Heavy Metals	NMT 20ppm	NMT20ppm
Water	NMT 6.0%	4.2%
Sulphated ash	NMT 0.2%	0.04%
Residual ethanol	NMT 0.5%	0.2%
ASSAY		
Ammonium Glycyrrhizate	From 98.0% to 102.0% (anhydrous substance)	99.1%
CONCLUSION	Complies European Pharmacopoeia 8.0 Standard	

Storage: In an airtight container

Analyst: Wen Qian

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