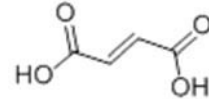




CERTIFICATE OF ANALYSIS

Commodity: Fumaric Acid CWS
Batch No. : 211122
Quantity: 19000KG
CAS No.: 110-17-8

Manufacturing Date: 2021/11/22
Expiry Date: 2023/11/21
Standard: FCC V
Structural Formula:



ITEM	INDEX	RESULT
Appearance	White fine powder	Complies
Assay	99.5%~100.2%	99.9%
Arsenic (As)	≤3 ppm	<1 ppm
Heavy metals (Pb)	≤10 ppm	<5 ppm
Lead	≤2 ppm	<1 ppm
Residue on Ignition	≤0.03%	0.016%
Water	≤0.3%	0.05%
pH (1:30)	2~2.5	2.3
Maleic Acid	≤0.1%	0.02%
Colour (Pt-Co)	≤15 hazen	10 hazen
DSS.	≤0.3%	0.22%
Melting Point	286℃~289℃	287℃
Particle size	Through 300 mesh, 99.9%	Complies
Solubility (25℃)	≥1.0g/100ml water	1.02g/100ml water

Conclusion: The test result of the above mentioned product meets FCC V standard.

Tested by: ZHANGYU



LIU SHUHUA