



STAR GRACE MINING CO.,LTD

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Certificate of Analysis

Product name : Citric Acid Monohydrate

Item	Unit	BP2011	E330	USP24	FCC	Analysis Result
Characteristics		Colorless or White Crystal				
Identification Test		Pass the test	Pass the test	Pass the test	Pass the test	Pass the test
Clarity & Colour of solution		20% Water Solution Clarity				
Assay	%	99.5-101.0	99.5-101.0	99.5-100.5	99.5-100.5	99.8
Moisture	%	7.5-9.0	≤8.8	7.5-9.0	≤8.8	8.68
Sulphated Ash	%	≤0.1	≤0.05	≤0.05	≤0.05	0.01
Sulphahte	ppm	≤150		Pass the test	Pass the test	<20
Oxalate	ppm	≤350	≤100	Pass the test	Pass the test	<20
Calcium	ppm	≤200			Pass the test	<10
Heavy Metals	ppm	≤10	≤5	≤5	≤5	<1
Iron	ppm	≤50				<1
Chloride	ppm	≤50				<5
Readily Carbureted Substance		Not deeper in standard				Pass
Barium		Pass the test				Pass the test
Bacterial Endotoxin	IU/mg	≤0.5				<0.5
Aluminum	ppm	≤0.2				<0.2
Arsenic	ppm		≤1	≤3	≤3	<0.1
Mercury	ppm		≤1			<0.1
Lead			≤1		≤0.5	<0.5
Organic Volatile Impurity					Pass the test	Pass the test
Tridodecylamine	ppm				≤0.1	<0.1
U.V. Radiation Absorption Value					Pass the test	Pass the test
Odor		Odorless				Odorless
Filtration		C-C				B-C