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QUALITY CERTIFICATE

Product: CITRIC ACID MONOHYDRATE 8-40MESH BP/USP/FCC/E330
Molecular Formula: $C_6H_8O_7 \cdot H_2O$ CAS No.:
Batch No.: Production Date: Date: Invoice No.:
Quantity: Shelf Life: 36 months

Item	Unit	Quality Standards	Analysis Results
Characters	-	White or almost white, crystalline powder, colourless crystals or granules. Odorless, has a strongly acid taste. Very soluble in water, freely soluble in ethanol. very slightly soluble in diethyl ether.	Pass
Identification	-	Pass Test	Pass
Appearance of solution	-	Pass Test	Pass
Assay	%	99.5-100.5	99.9
Water	%	7.5-8.8	8.60
Readily Carbonisable Substances	-	Pass Test	Pass
Sulphated Ash (Residue on Ignition)	%	≤ 0.05	0.02
Sulfate	mg/kg	≤ 50	<50
Oxalate	mg/kg	≤ 50	<50
Chloride	mg/kg	≤ 5	<5
Lead	mg/kg	≤ 0.1	<0.1
Arsenic	mg/kg	≤ 0.1	<0.1
Mercury	mg/kg	≤ 0.1	<0.1
Aluminium	mg/kg	≤ 0.2	<0.2
Heavy Metals	mg/kg	≤ 5	<5
Bacterial endotoxins	IU/mg	<0.5	<0.5

Conclusion: The product is in conformity with BP/USP/FCC/E330/ENSIGN.