

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Citric Acid  
**INCI Name:** Citric Acid  
**CAS Number:** 77-92-9  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 36 months from production date

Analytical Tests	Specifications	Results
Characteristics	White crystalline powder	Conforms
Water solubility	Very	Conforms
Ethanol solubility	Freely 96%	Conforms
Ether solubility	Sparingly	Conforms
Assay	99.7-100.3%	99.79%
Water	0.00-0.50%	0.06%
Calcium	<=30.0	Conforms
Readily carbonisable substances (USP/FCC)		Conforms
Heavy metals as lead	<=5.0mg/kg	Conforms
Iron	<=3.00	Conforms
Arsenic	<=1.0mg/kg	Conforms
Mercury	<=0.5	Conforms
Chloride	<=5.0	Conforms
Lead	<=0.5mg/kg	Conforms
Oxalic acid	<=100	Conforms
Sulphate (100mg/kg)	<=100	Conforms
Sulphated Ash	<=0.05	Conforms
Residue on ignition (USP/FCC)	<=0.05%	Conforms
Bulk Density	400-1300	Conforms
Particles on mesh 25 (0.71mm)	0.00-10.00	Conforms
Particles through 0,20mm	0.00-10.00	6.11
Particles on mesh 0,63mm	0.00-10.00	2.20
Particles <mesh 100 (0,150mm)	0.00-10.00	conforms

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

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