



CERTIFICATE OF ANALYSIS

Product	Citric Acid, Monohydrate
Product Code	A212098-0001
Formula	$C_6H_8O_7 \cdot H_2O$
MW	210.14
CAS#	5949-29-1
Batch No	S3824200
Re-assay Date	March, 2027

Test Items	Specifications	Results
Odor	Odorless	Pass
Identification	Meets requirements	Pass
Water (K. Fischer)	8.1 - 8.7%	8.3 %
Extraneous Matter	Passes test	Pass
Color (500 g/L, T at 405 nm, 1 cm)	98 -100%	98.38%
Appearance of solution (visual test)	Meets EP requirements	Pass
Clarity of solution (color: %T)	Meets USP requirements	Pass
Color of solution (color: %T)	Meets USP requirements	Pass
Readily Carbonisable substances	Meets requirements	Pass
Heavy metals (sum: Cd, Cr, Cu, Pb, Hg, Zn, Ni)	< 1 ppm	0.8769 ppm
Arsenic	< 1 ppm	0.2073 ppm
Lead	< 0.5 ppm	0.0845 ppm
Mercury	< 1 ppm	0
Barium	< 1 ppm	0
Copper	< 1 ppm	0.6907 ppm
Zinc	< 1 ppm	0.1299 ppm
Iron	< 1 ppm	0
Calcium	< 10 ppm	0.0956 ppm
Magnesium	< 1 ppm	0.1121 ppm
Aluminium	< 0.2 ppm	0.0410 ppm
Chloride	< 5 ppm	< 5 ppm
Sulphates	< 30 ppm	< 30 ppm
Oxalates/Oxalic acid	< 10 ppm	< 10 ppm
Sulphated ash / Residue on ignition	Meets FCC requirements (NMT 0.05% on 4g)	0.02%

QF 21 Rev 2

V-2023.02.23


20 Konrad Cres. Markham Ontario L3R 8T4 Canada
Tel: (905) 474 4493, (800) 313 7224 Fax: (905) 474 5794
Email: order@biobasic.com Web: www.biobasic.com



Assay	99.8 - 100.5%	99.96%
Tridodecylamine	Only for solvent extracted citric acid	/
<u>Fineness (ISO standard sieves)/MESH</u>		
Granular		
On No. 5 (4000um)	Max. 5%	0
Through No. 30 (600 um)	Max. 10%	Conforms
Fine Granular		
On No. 20 (850 um)	Max. 5%	N/A
Through No. 100 (150 um)	Max. 5%	N/A
Insoluble Matter	N/A	Pass
Solubility	Very soluble in water	Pass

Storage: Store at room temperature. Protect from moisture.

This Signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: 
Title: General Manager
Date: March 08, 2024