

## CERTIFICATE OF ANALYSIS

NAME OF PRODUCT : CITRIC ACID MONOHYDRATE IP  
 BATCH NO. : IP/02350120/29 LICENCE NO.: KD-40  
 MFG. DATE : JAN. 2020 TOTAL QTY. : 1028 Kg.  
 EXP. DATE : DEC. 2022 LAB ID : PHFP/1920/0230  
 ANALYSIS DATE : 23.01.2020

TEST	ATTRIBUTE	ACTUAL
Description	Colourless crystals or a white, crystalline powder; slightly efflorescent in warm, dry air.	Complies.
Solubility	Very soluble in water, freely soluble in ethanol (95%); sparingly soluble in ether.	Complies.
Identification	A) Infrared absorption spectrophotometry - Conforms. B) Gives reaction A of citrates. C) A 10.0% w/v solution is strongly acidic.	Complies. Complies. Complies.
Appearance of solution (2.0gm in 10 ml of water)	The solution is clear and not more intensely coloured than reference solution YS7, BYS7 or GYS7	Complies.
Arsenic	Max. 1 ppm	< 1 ppm
Barium	To pass the test.	Complies.
Calcium	Max. 200 ppm	< 200 ppm
Heavy metals (Pb)	Max. 10 ppm	< 10 ppm
Iron	Max. 50 ppm	< 50 ppm
Chloride	Max. 50 ppm	< 50 ppm
Sulphate	Max. 150 ppm	< 150 ppm
Oxalic acid	To pass the test.	Complies.
Readily carbonisable Substances	To pass the test.	Complies.
Sulphated ash	Max. 0.1 %	0.03%
Water	7.5 to 9.0 %	7.93%
Assay (C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> , calc. on the anhydrous basis)	NLT 99.0 and NMT 101.0%	99.80%

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY OF IP STANDARD.

This product is manufactured at our manufacturing unit no. 1 (Boisar).

CODE NO. : 20081P

FOR S D FINE-CHEM LIMITED

  
MANAGER (QC)