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## CERTIFICATE OF ANALYSIS

NAME OF PRODUCT	: CITRIC ACID MONOHYDRATE IP/BP/USP.	LICENCE NO. :	KD-40
BATCH NO.	: OM/01720123/87	TOTAL QTY. :	100.1 Kg.
MFG. DATE	: JAN. 2023	LAB ID	: PHFP/2223/0173
EXP. DATE	: DEC. 2025		
ANALYSIS DATE	: 08.02.2023		

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
Assay (C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> , Calc.on the anhydrous basis)	99.5 - 100.5%	99.46%
<b>Identification :</b>		
A) Test A	The solution is strongly acidic	Complies
B) Test B - By FTIR	Conforms with RS.	Complies
C) Test C	A red colour develops.	Complies
D) Test D	A white precipitate is formed.	Complies
E) Water	7.5 to 9.0%	8.34%
Appearance of solution.	The solution is clear and not more intensely coloured than reference solution YS7, BYS7 or GYS7.	Complies
Clarity of solution	The Sample solution shows the same clarity as that of water or its opalescence is not more pronounced than Standard suspension A.	Complies
Color of solution	The Sample solution is not more intensely coloured than Standard solution A, B, and C.	Complies
Arsenic	Max. 1 ppm	< 1 ppm
Barium	To pass the test.	Complies
Calcium	Max. 200 ppm	< 200 ppm
Chloride	Max. 50 ppm	< 50 ppm
Sulphate	Max. 150 ppm	< 150 ppm
Sulphated ash	Max. 0.1 %	0.05%
Water	7.5 to 9.0%	8.34%
Iron	Max. 50 ppm	< 50 ppm
Heavy metals (Pb)	Max. 10 ppm	< 10 ppm
Oxalic acid	Maximum 360 ppm.	< 360 ppm
Readily carbonisable Substances	The solution is not more intensely coloured than a mixture of 1 ml of red primary solution and 9 ml of yellow primary solution.	Complies

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY OF IP/BP/USP STD.

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

For S D FINE-CHEM LIMITED

CODE NO. : 200810M

  
MANAGER (QC)

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**QUALITY CONTROL DEPARTMENT**