

CERTIFICATE OF ANALYSIS
QUALITY CONTROL LABORATORY
 of SDFCL Mfg. Unit No. 1

E27/ E28, MIDC, Tarapur Industrial Area, B-Road, Boisar-401506, Maharashtra

LAB. ID	: RM/1920/0049	CERTIFICATE NO.	: 240419/14
NAME OF PRODUCT	: CITRIC ACID MONOHYDRATE AR, ACS	DATE OF ANALYSIS	: 19.07.2019
BATCH NO	: G19A/1419/2404/31	SPECIFICATION REF.	: 20081SP08
PRODUCT CODE	: 20081	RETEST DATE	: JUNE-2024
MFG. DATE	: JULY-2019		

CASR NO : (5949-29-1)

 $C_6H_8O_7 \cdot H_2O$

M.W. : 210.14

TEST	SPECIFICATIONS	RESULTS	TEST METHOD REF.
Description	Colourless / white crystals or powder.	Complies.	USP-30
Solubility	20% solution in water is clear & not more intensely coloured than ref.soln. (Y7).	Complies.	USP-30
Identification	Passes tests.	Complies	USP-30
Assay (Acidimetric, Calc. on anhydrous subs.)	99.5 – 100.5%	99.61%	USP-30
Water (by Karl Fischer)	7.5 – 9.0%	8.8%	In house
Residue after ignition (as SO ₄)	Max. 0.02%	< 0.02%	ACS 9 th Edition
Max.UV Absorbance (Polycyclic aromatic Hydrocarbons) :			FCC 4 th Edition
280 – 289 nm	0.25	0.035	
290 – 299 nm	0.20	0.021	
300 – 359 nm	0.13	0.020	
360 – 400 nm	0.03	0.0066	
MAXIMUM LIMIT OF IMPURITIES			
Insoluble matter	0.005%	< 0.005%	BP-2008
Chloride (Cl)	0.001%	Complies [< 0.001%]	ACS 9 th Edition
Oxalate (C ₂ O ₄)	0.036%	Complies [<0.036%]	BP-2008
Phosphate (PO ₄)	0.001%	Complies [<0.001%]	ACS 10 th Edition
Sulphate (SO ₄)	0.002%	Complies [< 0.002%]	Analar 8 th Edition

(This is a computer printed report, hence valid without signature.)

CERTIFICATE OF ANALYSIS
QUALITY CONTROL LABORATORYof SDFCL Mfg. Unit No. 1
E27/ E28, MIDC, Tarapur Industrial Area, B-Road, Boisar-401506, Maharashtra

Aluminium (Al)	0.0002%	Complies [$< 0.0002\%$]	Analar 8 th Edition
Arsenic (As)	0.0001%	Complies [$< 0.0001\%$]	Analar 8 th Edition
Barium (Ba)	Passes test.	Complies	IP-2007
Calcium (Ca)	0.005%	Complies [$< 0.005\%$]	Analar 8 th Edition
Copper (Cu)	0.0005%	Complies [$< 0.0005\%$]	Analar 8 th Edition
Iron (Fe)	0.0003%	Complies [$< 0.0003\%$]	Analar 8 th Edition
Lead (Pb)	0.0002%	Complies [$< 0.0002\%$]	ACS 10 th Edition
Heavy metals (as Pb)	0.001%	Complies [$< 0.001\%$]	BP-2008
Magnesium (Mg)	0.005%	Complies [$< 0.005\%$]	Analar 8 th Edition
Readily carbonisable Substances	Passes test.	Complies	BP-2008
Organic volatile impurities (by GC-HS)	Meets the requirement (BP / USP).	Complies	USP-30

THE ABOVE BATCH MATERIAL COMPLIES WITH THE PRESCRIBED QUALITY OF THE STANDARD AS STATED ABOVE.

Measured values given in this Certificate of Analysis are the results determined at the time of Analysis.

The above data do not relieve the user from analysing the product upon receipt. Any legally binding assurance regarding the suitability of the product for any particular purpose or use can not be derived thereof.

The results relate only to the sample tested.

This certificate shall not be reproduced except in full, without written consent of the Lab. management.

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

For S D FINE-CHEM LIMITED

Sampling SOP No. : SDFCL-TAR-SWP-GEN-007
Sampling Plan : A (Sq. root of N+1)
Spl. Ref. (if any) : -

(Authorised Signatory)

..... END OF REPORT.....

(This is a computer printed report, valid without signature)