

**Qualikems**

Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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CERTIFICATE OF ANALYSIS

Name of Product	:	Citric Acid Monohydrate	CAS No.	:	5949-29-1
Molecular Formula	:	C ₆ H ₈ O ₇ .H ₂ O	Molecular Weight	:	210.14 g/mole
Batch No.	:	QF2502061	Grade	:	LR
Mfg. Date	:	February-2025	Retest Date	:	January-2030

Sr. No.	Tests	Specification	Observation
1	Appearance	White crystalline powder	Complies
2	Minimum assay (by acidimetric)	99.0 %	99.53 %
	Maximum Limits of Impurities :		
3	Insoluble matter in water	0.01 %	0.004 %
4	Chloride (Cl)	0.005 %	< 0.005 %
5	Sulphate (SO ₄)	0.01 %	< 0.01 %
6	Oxalate (C ₂ O ₄)	0.035 %	0.014 %
7	Heavy metals (as Pb)	0.001 %	0.0006 %
8	Lead (Pb)	0.001 %	< 0.001 %
9	Iron (Fe)	0.001 %	< 0.001 %
10	Zinc (Zn)	0.001 %	0.0002 %
11	Arsenic (As)	0.0001 %	< 0.0001 %
12	Calcium (Ca)	0.02 %	0.01 %
13	Barium (Ba)	0.002 %	0.001 %
14	Water	7.5-8.8 %	8.01 %
15	Reaction against sulphuric acid	passes test	Passes
16	Sulphated ash (600°C)	0.05 %	0.03 %

Conclusion: Product complies as per above specification.

Note: This document has been produced electronically and it is valid without signature.

Quality of our product tested and reported in the COA are as per the specification and without any prejudice/liability what so ever the end product performance

(An ISO 9001 : 2015 & 14001 : 2015 & 45001:2018 Certified Company)

NSIC - CRISIL SE 2B which indicates " High Performance Capability & Moderate Financial Strength