# Qualikems Lifesciences Pvt. Ltd.

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## CERTIFICATE OF ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| **Name of Product** | : | Citric Acid Monohydrate | **CAS No.** | : | 5949-29-1 |
| **Molecular Formula** | : | $C_6H_8O_7.H_2O$ | **Molecular Weight** | : | 210.14 g/mole |
| **Batch No.** | : | QF2611042 | **Grade** | : | LR |
| **Mfg. Date** | : | November-2026 | **Retest. Date** | : | October -2031 |

| Sr. No. | Tests | Specification | Observation |
|---|---|---|---|
| 1 | Appearance | White crystalline powder | Complies |
| 2 | Minimum assay(by acidimetric) | 99.0 % | 99.56 % |
| | **Maximum Limits of Impurities :** | | |
| 3 | Insoluble matter in water | 0.01 % | 0.006 % |
| 4 | Chloride(Cl) | 0.005 % | < 0.005 % |
| 5 | Sulphate($SO_4$) | 0.01% | <0.01 % |
| 6 | Oxalate($C_2O_4$) | 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% | 0.0004 % |
| 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 % | 8.10 % |
| 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


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