

**Qualikems**

Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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CERTIFICATE OF ANALYSIS

Name of Product	: 1,10 Phenanthroline Monohydrate	CAS No.	: 5144-89-8
Molecular Formula	: $C_{12}H_8N_2 \cdot H_2O$	Molecular Weight	: 198.22 g/mole
Batch No.	: QF2502175	Grade	: AR
Mfg. Date	: February-2025	Retest Date	: January-2030

Sr. No.	Tests	Specification	Observation
1	Appearance	White crystals or crystalline powder	Complies
2	Assay	Min 99.0 %	99.60 %
3	Molar absorptivity of Fe complex minimum	11700	Complies
4	Sensitivity	1:10,000,000	Complies
5	Melting point	117-120°C	118°C
6	Sulphated ash	Max 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