

CERTIFICATE OF ANALYSIS

**PRODUCT NAME : 1,10-PHENANTHROLINE AR MONOHYDRATE
REDOX INDICATOR**

CAS No	: 5144- 89- 8	Product code	: 24640
Mol. Formula	: C ₁₂ H ₈ N ₂ .H ₂ O	Batch No.	: MCR-28905
Mol. WT	: 198.23	Mfd.	: July 2023
Date of analysis	: 31/07/23	Exp.	: June 2028

S.R.	Test	Specification	Observation
1	Description	White to off white or beige crystals or needles or crystalline powder, becoming cream coloured on storage.	White needles.
2	Assay	99.5% min	99.74%
3	Water	8.8 – 9.5%	9.38%
4	Sensitivity as reagent for iron	1:10,000,000 min.	>1:10,000,000
5	Sensitivity as redox indicator	passes test	passes test
6	Melting point	100 -104 ⁰ C	102.2 ⁰ C
7	Sulphated ash	0.05% max	0.02%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

**CHEMIST
(Sonu)**

**HEAD-QUALITY ASSURANCE
(G.G.Salian)**

Note: Computer generated image requires no sign.

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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