



## **CERTIFICATE OF ANALYSIS**

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

**CAS No** : 5144- 89- 8  
**Mol. Formula** :  $C_{12}H_8N_2 \cdot H_2O$   
**Mol. WT** : 198.23  
**Date of Analysis** : 07/10/18

**Product code** : 24640  
**Batch No** : MCR-17065  
**Mfd.** : Oct. 2018  
**Exp.** : Sept. 2023

| S. R. | Test                            | Specification                                                                                              | Observation          |
|-------|---------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|
| 1     | Description                     | White to off white or beige crystals or needles or crystalline powder, becoming cream coloured on storage. | Off White needles.   |
| 2     | Assay                           | 99.5% min                                                                                                  | 99.55%               |
| 3     | Water                           | 8.8 – 9.5%                                                                                                 | 8.9%                 |
| 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 <sup>0</sup> c                                                                                    | 102.2 <sup>0</sup> c |
| 7     | Sulphated ash                   | 0.05% max                                                                                                  | 0.04%                |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

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

**Note:** Computer generated image requires no sign.

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