

CERTIFICATE OF ANALYSIS



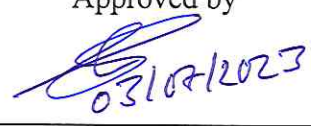
28/02/2023

| | | | |
|-------------------|---|--------------------|---------------|
| Product | Hydroquinone USP | | |
| Synonyms | 1,4-Benzenediol | | |
| CAS No. | 123-31-9 | Batch No. | HYD/22-23/037 |
| A.R. No. | MR/API/FP/23/02/016 | Manufacturing date | February 2023 |
| Batch size | 550.000 kg | Retest date | January 2026 |
| Storage condition | Preserve in tight, light-resistant containers | | |
| Date of analysis | 21/02/2023 | | |

| Test | Specification | Results |
|----------------------|---|--|
| Description | Fine white needles. Darkens upon exposure to light and air | Fine white needles. Darkens upon exposure to light and air |
| Solubility | Freely soluble in water, in alcohol, and in ether | Complies |
| Identification | | |
| a) By IR | Corresponds to working standard. | Conforms with standard |
| b) By TLC | The R _f Value of the principal spot obtained from the solution under test corresponds to that obtained from the standard solution. | Complies |
| c) By UV | A1 in 40,000 solution in methanol exhibits an absorbance maximum at 293±2 nm | Complies |
| Melting range | Between 172-174 °C | 172-174°C |
| Water (By KF) | Not more than 0.5% | 0.23% |
| Residue on ignition | Not more than 0.5% | 0.07% |
| Assay (By Titration) | Not less than 99.0% and Not more than 100.5% of C ₆ H ₆ O ₂ , calculated on the anhydrous basis. | 99.70% |

| In House test | | |
|---------------------------------|---------------------|--------------|
| Related substance (By HPLC) | | |
| Pyrogallol | Not more than 0.15% | Not detected |
| Resorcinol | Not more than 0.15% | Not detected |
| Pyrocatechol | Not more than 0.15% | Not detected |
| Largest single unknown impurity | Not more than 0.10% | Below LOQ |
| Total impurities | Not more than 1.0% | Below LOQ |

Remark: The above material complies/does not comply with specification No. QCD/APS/002-R7

| | | |
|--|---|--|
| Prepared by  03/07/2023 | Checked by  03/07/2023 | Approved by  03/07/2023 |
| Chhote Saab Singh Gurjar Sr. Coordinator - QC | Dr. Hitesh Malvia Asst.Sr.Manager-QC | Pawan Shukla Manager - QA |

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