


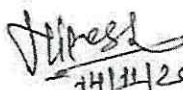
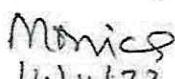
## CERTIFICATE OF ANALYSIS

Product	Hydroquinone USP		
Synonyms	1,4-Benzenediol		
CAS No.	123-31-9	Batch No.	HYD/22-23/003
A.R. No.	MR/API/FP/22/04/058	Manufacturing date	April 2022
Batch size	547.200 kg	Retest date	March 2025
Storage condition	Preserve in tight, light-resistant containers		
Date of analysis	08/04/2022		

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 b) By TLC  c) By UV	Corresponds to working standard.  The R <sub>f</sub> Value of the principal spot obtained from the solution under test corresponds to that obtained from the standard solution.  A1 in 40,000 solution in methanol exhibits an absorbance maximum at 293±2 nm	Conforms with standard  Complies  Complies
Melting range	Between 172-174 °C	172-174°C
Water (By KF)	Not more than 0.5%	0.24%
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 <sub>6</sub> H <sub>6</sub> O <sub>2</sub> , calculated on the anhydrous basis.	99.64%

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  14/11/2022	Checked by  14/11/2022	Approved by  14/11/22
Chhote Saab Singh Gurjar Sr.Coordinator - QC	Hitesh Malvia Asst.Sr.Manager - QC	Monica Tripathi VP - QA/RA

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