



## CERTIFICATE OF ANALYSIS

*07/02/2024*

Product	Hydroquinone USP		
Synonyms	1,4-Benzenediol		
CAS No.	123-31-9	Batch No.	HYD/23-24/013
A.R. No.	MR/API/FP/23/07/105	Manufacturing date	July 2023
Batch size	555.600 kg	Retest date	June 2026
Storage condition	Preserve in tight, light-resistant containers		
Date of analysis	03/08/2023		
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 <sub>f</sub> 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%	0.29%
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.	99.67%
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 LOD
Total impurities		Not more than 1.0%	Below LOD

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

Prepared by <i>Chhote Saab Singh Gurjar</i> 19/12/2023	Checked by <i>Dr. Hitesh Malvia</i> 19/12/2023	Approved by <i>Pawan Shukla</i> 19/12/2023
Chhote Saab Singh Gurjar Sr. Coordinator - QC	Dr. Hitesh Malvia Asst. Sr. Manager - QC	Pawan Shukla Manager - QA

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Medilux Laboratories Pvt. Ltd.  
Plot No.98-99, Sector-1, Industrial Area,  
Pithampur 454 775, Dist. Dhar,  
(M.P.) India.



Phone: +91-7292-409991, 92, 93, 252347  
Fax: +91-7292-409995  
Email: info@medilux.co.in  
Web: www.medilux.co.in