

CERTIFICATE OF ANALYSIS

Product	Hydroquinone USP		
Synonyms	1,4-Benzenediol		
CAS No.	123-31-9	Batch No.	HYD/055/20-21
A.R. No.	MR/FP/20/11/802	Manufacturing date	November 2020
Batch size	273.200 kg	Retest date	October 2023
Storage condition	Preserve in tight, light-resistant containers		
Date of analysis	25/11/2020		

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%	0.19%
Residue on ignition	Not more than 0.5%	0.08%
Assay (By Titration)	Not less than 99.0% and Not more than 100.5% of $C_6H_6O_2$, calculated on the anhydrous basis.	99.79%
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-R5

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