

15/11/2021

CERTIFICATE OF ANALYSIS


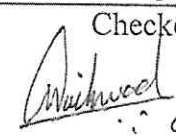
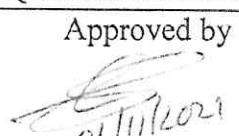
Product	Hydroquinone USP		
Synonyms	1,4-Benzenediol		
CAS No.	123-31-9	Batch No.	HYD/041/21-22
A.R. No.	MR/FP/21/08/500	Manufacturing date	August 2021
Batch size	274.400 kg	Retest date	July 2024
Storage condition	Preserve in tight, light-resistant containers		
Date of analysis	16/08/2021		

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%	0.26%
Residue on ignition	Not more than 0.5%	0.06%
Assay (By Titration)	Not less than 99.0% and Not more than 100.5% of $C_6H_6O_2$, calculated on the anhydrous basis.	99.45%

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-R6

Prepared by  01/11/2021	Checked by  01/11/2021	Approved by  01/11/2021
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Reprinted on 01/11/2021

Format No. : QCD/029/F/01-02

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