

**CERTIFICATE OF ANALYSIS**

PRODUCT NAME: HEPES  
N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid )

CAS NO. 7365-45-9

FORMULA: C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S

BATCH NO. 21/MFM/2751

EXPIRY DATE: 08 April 2023

STORAGE: Room Temperature

TESTS	SPECS	RESULTS
Appearance	White crystalline free-flowing powder	Complies
Assay (Titration, Dry basis)	>= 99.5%	99.0%
Loss on drying (105°C, 4hr)	<= 1.00%	0.05%
Infrared	Complies	Complies
pH 1% Di H <sub>2</sub> O	4.8 – 5.6 (25°C)	5.21
Solubility 1M water	Clear, colourless solution	Complies
Residue on ignition	<= 0.1%	Complies
A <sub>260</sub> , 1M water	≤0.100	0.014
A <sub>260</sub> , 1M water	≤0.070	0.008
Heavy metals (Pb)	<= 10.0 ppm	Complies
Fe(iron ion,ppm)	< 5 ppm	Complies
Sulfate(SO <sub>4</sub> 2-%)	< 0.05%	Complies

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15th June 2021