

CERTIFICATE OF ANALYSIS

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

CAS NO. 7365-45-9

FORMULA: C₈H₁₈N₂O₄S

BATCH NO. 20/MFM/2584

EXPIRY DATE: 15 June 2023

STORAGE: Room Temperature

TESTS	SPECS	RESULTS
Appearance	White crystalline free-flowing powder	Complies
Assay (Titration, Dry basis)	>= 99.5%	99.7%
Loss on drying (105°C, 4hr)	<= 0.5%	0.48
Water Content (By KF)	≤ 0.5%	0.31
Infrared	Complies	Complies
pH 1% Di H ₂ O	4.8 – 5.6 (25°C)	5.1
Solubility 1M water	Clear, colourless solution	Complies
Residue on ignition	<= 0.1%	Complies
A ₂₆₀ , 1M water	≤0.045	0.041
A ₂₆₀ , 1M water	≤0.035	0.021
A ₄₂₀ , 1M water	≤0.030	0.017
Heavy metals (Pb)	<= 5 ppm	Complies
pKa at 20°C	7.35 – 7.69	7.51

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11th August 2020