

CERTIFICATE OF ANALYSIS

PRODUCT NAME: HEPES
 N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
 CAS NO. 7365-45-9
 FORMULA: C₈H₁₈N₂O₄S
 BATCH NO. 23/MFM/2023
 EXPIRY DATE: 10th June 2025
 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%	0.43%
Water Content	<= 0.5%	0.30%
Infrared	Complies	Complies
pH 1% Di H ₂ O	4.8 – 5.6 (25°C)	5.3
Solubility 1M water	Clear, colourless solution	Complies
Residue on ignition	<= 0.1%	Complies
A ₂₆₀ , 1M water	≤0.045	0.043
A ₂₈₀ , 1M water	≤0.035	0.020
A ₄₂₀ , 1M water	≤0.020	0.013
Heavy metals (Pb)	≤ 5 ppm	Complies
pKa 12 20°C	7.35 – 7.69	7.40

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7th September 2023