

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/2497

EXPIRY DATE: 02 December 2022

STORAGE: Room Temperature

TESTS	SPECS	RESULTS
Appearance	White crystalline free-flowing powder	Complies
Assay (Titration, Dry basis)	>= 99.5%	99.6%
Loss on drying (105°C, 4hr)	<= 0.5%	0.47
Water Content (By KF)	≤ 0.5%	0.34
Infrared	Complies	Complies
pH 1% Di H ₂ O	4.8 – 5.6 (25°C)	5.4
Solubility 1M water	Clear, colourless solution	Complies
Residue on ignition	<= 0.1%	Complies
A ₂₆₀ , 1M water	≤0.045	0.044
A ₂₆₀ , 1M water	≤0.035	0.024
A ₄₂₀ , 1M water	≤0.030	0.016
Heavy metals (Pb)	<= 5 ppm	Complies
pKa at 20°C	7.35 – 7.69	7.54

For and on behalf of
 FORMEDIUM Ltd, Unit 1B
 Hunstanton Commercial Park
 PE36 5JQ, England

* This material is supplied for Research Use only.


 (Authorised Signature)

Supplier: Formedium Ltd

Approved by:



Date: 17 MAR 2020