

CERTIFICATE OF ANALYSIS

PRODUCT NAME: HEPES N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
FORMULA: C₈H₁₈N₂O₄S
BATCH NO. 18/MFM/2148
CAS Number: 7365-45-9
EXP. DATE: April 2021
STORAGE: Ambient

TESTS	SPECS	RESULTS
Appearance	White Crystalline Free-Flowing Powder	Complies
Water Content (By KF)	≤0.5%	0.28
pH 1% Di H ₂ O	4.8 – 5.6 (25°C)	5.3
Solubility 1M water	Clear, colourless solution	Complies
Loss on Drying (105°C, 4Hr)	≤0.5%	0.46
Residue on Ignition	≤0.1%	Complies
Heavy Metals (Pb)	≤5ppm	Complies
Assay (Titration, Dry Basis)	≥99.5%	99.6
pKa at 20°C	7.35 – 7.69	7.52
Infrared	Complies	Complies
A ₂₆₀ , 1M water	≤0.045	0.044
A ₂₈₀ , 1M water	≤0.035	0.023
A ₄₂₀ , 1M water	≤0.020	0.017

* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:  Date: 28 JUN 2018
 For and on behalf of
FORMEDIUM Ltd, Unit 1B
Hunstanton Commercial Park
PE36 5JQ England

 (Authorised Signature)