

CERTIFICATE OF ANALYSIS

PRODUCT NAME: HEPES N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)
 FORMULA: $C_8H_{18}N_2O_4S$
 BATCH NO. 18/MFM/2210
 CAS Number: 7365-45-9
 EXP. DATE: 07 June 2021
 STORAGE: Ambient

TESTS	SPECS	RESULTS
Appearance	White Crystalline Free-Flowing Powder	Complies
Water Content (By KF)	$\leq 0.5\%$	0.45
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)	$\leq 0.5\%$	0.45
Residue on Ignition	$\leq 0.1\%$	Complies
Heavy Metals (Pb)	$\leq 5\text{ppm}$	Complies
Assay (Titration, Dry Basis)	$\geq 99.5\%$	99.6
pKa at 20°C	7.35 – 7.69	7.52
Infrared	Complies	Complies
A ₂₆₀ , 1M water	≤ 0.045	0.043
A ₂₈₀ , 1M water	≤ 0.035	0.023
A ₄₂₀ , 1M water	≤ 0.020	0.018


* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by:

Date: 02 OCT 2018


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


 (Authorised Signature)