

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** MES Monohydrate  
**FORMULA:** C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>SH<sub>2</sub>O  
**BATCH NO.** 18/MFM/2085  
**CAS Number:** 145224-94-8  
**EXP. DATE:** 04 January 2021  
**STORAGE:** Ambient

TESTS	SPECS	RESULTS
Appearance	White Crystalline Powder	Complies
Water Content (By KF)	8.0-8.9%	8.4
pH 1% Di H <sub>2</sub> O	3.5 – 4.5 (25°C)	4.4
Solubility 0.1M water	Clear, colourless solution	Complies
Infrared	Complies	Complies
Assay (Titration, Dry Basis)	>= 99.0%	99.6%
A <sub>280</sub> , 0.5M water	≤0.020	0.016
A <sub>260</sub> , 0.5M water	≤0.025	0.024
Residue on ignition	<= 0.1%	Complies
pKa 25°C	5.9 – 6.3	6.0
Heavy metals	<= 5 ppm	Complies

\* This material is supplied for laboratory use only.

Supplier: Formedium Ltd

Approved by  
 For and on behalf of  
**FORMEDIUM Ltd, Unit 1B**  
**Hunstanton Commercial Park**  
**PE36 5JQ, England**  
 (Authorised Signature)

Date: 26 MAR 2018