



Certificate of Analysis

Product	55311 - MES Monohydrate Buffer for cell culture, 99% - [145224-94-8]
Batch No	2836429
Analysis Date	10-Jan-2022
Date of Manufacture	January 2022
Expiry Date/Re-Test Date	January 2027
Molecular Formula	C6H13NO4S.H2O
Molecular Weight	213.25

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless	Colourless
Assay (T)	min. 99%	99.6%
pH (10% aq. solution)	3.0 - 3.5	3.1
Sulphated Ash	max. 0.2%	0.1%
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.0005%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Water (KF)	max. 10%	8.1%
Absorbance (A) of 10% aq. solution in a 1cm cell v/s H2O		
@250nm	max. 0.1	0.01
Smooth curve	230 - 350nm	Passes
Suitability for Cell Culture	Passes test	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	< 0.05 EU/mg	Passes