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Certificate of Analysis

Product **16826 - HEPES Buffer for molecular biology, 99.5% - [7365-45-9]**
Batch No **4041878**
Analysis Date 13-Mar-2024
Date of Manufacture March 2024
Expiry Date/Re-Test Date March 2029
Molecular Formula C₈H₁₈N₂O₄S
Molecular Weight 238.30

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 (NaOH titration)	min. 99.5%	99.5%
pH (5% aq. solution)	5.0 - 6.5	5.10
Loss on drying	max. 0.5%	0.02%
Sulphated Ash	max. 0.1%	0.03%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO ₄)	max. 0.01%	Passes
Phosphate (PO ₄)	max. 0.001%	Passes
Iron (Fe)	max. 0.0005%	Passes
Heavy Metals (Pb)	max. 0.0005%	Passes
Absorbance (A) of 10% aq. solution in a 1cm cell v/s H ₂ O		
@250 nm	max. 0.1	0.042
DNase, RNase, Protease	Not detected	Not detected

FRM/82/11/4/16826 Rev No. 3 Date 06/07/2023

Prepared by Priti

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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