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# Certificate of Analysis

**Product** **27907 - ACES Buffer for molecular biology, 99.5% - [7365-82-4]**  
**Batch No** **2874993**  
**Analysis Date** 17-Jun-2024  
**Date of Manufacture** June 2024  
**Expiry Date/Re-Test Date** June 2029  
**Molecular Formula** C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>S  
**Molecular Weight** 182.20

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% hot aq. solution	Clear	Clear
Solubility (Colour) 1.5% aq. hot solution	Colourless	Colourless
Assay (NaOH titration)	min.99.5%	99.7%
pH (2.5% aq. solution)	3.0 - 4.5	3.8
Loss on drying	max. 0.2%	0.1%
Sulphated Ash	max. 0.1%	0.02%
Chloride (Cl)	max. 0.05%	Passes
Sulphate (SO <sub>4</sub> )	max. 0.005%	Passes
Iron (Fe)	max. 0.0005%	Passes
Heavy Metals (Pb)	max. 0.0005%	Passes
Absorbance (A) of 2% aq. solution in a 1cm cell v/s H <sub>2</sub> O		
@250 nm	max. 0.05	0.032
Absorbance (A) of 0.5M aq. solution in a 1cm cell v/s H <sub>2</sub> O		
@260nm	max.0.05	0.026
@280nm	max.0.05	0.014
DNase, RNase, Protease	Passes	Passes

FRM/82/11/4/27907 Rev No. 1 Date 27/04/2024

Prepared by **Mayur**

In compliance with the standard specifications of SRL

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

608-B, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Chakala, Andheri (E), Mumbai - 400 099. India. ☎ +91-22-4268 5800

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