

## Certificate of Analysis

Date of Testing: 2023-03-23 07:49:35  
 Date of Next Testing: 2027-03-22 07:49:35  
 Product Name: **Ammonium acetate solution**  
 CAS Number: 631-61-8  
 Specifications & Purity: for molecular biology, 5 M in H<sub>2</sub>O  
 Lot #: C2318728  
 SKU #: **A294964**  
**Analysis:** **189181**  
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Concentration(Titration by NaOH)	4.90 - 5.10 (mol/L)	5.04 mol/L
Sulfated Ash	≤ 0.01 (%)	0.00000 %
Aluminium(Al)	0-1 (ppm)	0.01000 ppm
Barium(Ba)	0-1 (ppm)	0.01 ppm
Bismuth(Bi)	0-1 (ppm)	0.01 ppm
Calcium(Ca)	0-5 (ppm)	3.30 ppm
Cadmium(Cd)	0-1 (ppm)	0.00 ppm
Cobalt(Co)	0-1 (ppm)	0.00 ppm
Chromium (ICP)	0-1 (ppm)	0.00 ppm
Copper(ICP)	0-1 (ppm)	0.00 ppm
Iron(Fe)	0-1 (ppm)	0.01 ppm
Potassium(K)	0-20 (ppm)	1.07 ppm
Lithium(Li)	0-1 (ppm)	0.00 ppm
Magnesium(Mg)	0-1 (ppm)	0.00 ppm
Manganese(Mn)	0-1 (ppm)	0.00 ppm
Molybdenum(Mo)	0-1 (ppm)	0.10 ppm
Sodium(Na)	0-20 (ppm)	2.14 ppm
Nickel(Ni)	0-1 (ppm)	0.11 ppm
Lead(Pb)	0-1 (ppm)	0.00 ppm
Strontium(Sr)	0-1 (ppm)	0.00 ppm
Zinc(Zn)	0-1 (ppm)	0.01 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00 ppm
Total sulfur as SO <sub>4</sub> (ICP)	0-10 (ppm)	5.11 ppm
Chloride	0-5 (ppm)	1.47 ppm
(NO <sub>3</sub> )Nitrate	0-10 (ppm)	5.30 ppm
PH(1 M in water)	6.2 - 7.5	6.80

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Parameter	Limit Values	Result
UV Absorbance 260nm	0-0.015	0.00
UV Absorbance 280nm	0-0.01	0.00
Appearance(A294964)	Colorless Liquid	Colorless Liquid

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager