

Certificate of Analysis

Date of Testing: 2025-04-15 11:37:34

Date of Next Testing: 2028-04-14 11:37:34

Product Name: **Ammonium bicarbonate**

CAS Number: 1066-33-7

Specifications & Purity: UltraBio™, Ultra pure, ≥99.5%(T)

Lot #: D2511341

SKU #: **A431333**

Version: **1**

Analysis #: **490081**

Parameter	Limit Values	Result
Assay(Titration by HCL,1M)	99.5-101 (%)	99.53 %
Ignition Residue	0-0.05 (%)	0.00 %
Aluminium(Al)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00 ppm
Bismuth(Bi)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Cobalt(Co)	0-5 (ppm)	0.00 ppm
Chromium (ICP)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Lithium(Li)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-500 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-50 (ppm)	2.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Lead(Pb)	0-5 (ppm)	0.00 ppm
Strontium(Sr)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Arsenic traces(MHS-AAS)	0-0.1 (ppm)	0.00 ppm
Total sulfur as SO4 (ICP)	0-50 (ppm)	0.00 ppm
Chloride (Cl-)	0-50 (ppm)	0.00 ppm
Ph(25°C,1 M in H2O)	7-8.5	8.10000
UV Absorbance 260nm(at 1M in H2O)	0-0.03	0.02

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Parameter	Limit Values	Result
UV Absorbance 280nm(at 1M in H ₂ O)	0-0.02	0.01
Appearance(A431333)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Solubility(1 m in water)	Clear colorless	Clear Colorless

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

John Su
QA & QC Manager