

Certificate of Analysis

Date of Testing: 2022-01-25 16:31:41
 Date of Next Testing: 2025-01-24 16:31:41
 Product Name: **Betaine**
 CAS Number: 107-43-7
 Specifications & Purity: 99%, Ultra pure, ≥99.0%
 Lot #: A2219357
 SKU #: **B105556**
Analysis: **064638**
 Storage Temperature: Protected from light

Parameter	Limit Values	Result
Sulfate(SO ₄ ²⁻)	0-200 (ppm)	12.36 ppm
Water by Karl Fischer	0-1 (%)	0.61 %
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	3.50 ppm
Chloride (Cl ⁻)	0-200 (ppm)	12.21 ppm
UV Absorbance A 1M/280nm, mEtOH	0-0.05	0.03
Cobalt(Co)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-5 (ppm)	0.00 ppm
Cadmium(Cd)	0-5 (ppm)	0.00 ppm
Copper(Cu)	0-5 (ppm)	0.00 ppm
Calcium(Ca)	0-10 (ppm)	1.74 ppm
Chromium(Cr)	0-5 (ppm)	0.00 ppm
Iron(Fe)	0-5 (ppm)	0.00 ppm
Manganese(Mn)	0-5 (ppm)	0.00 ppm
Nickel(Ni)	0-5 (ppm)	0.00 ppm
Zinc(Zn)	0-5 (ppm)	0.00 ppm
UV Absorbance A 1M/260nm, mEtOH	0-0.08	0.01
Purity(Nonaqueous Titration)	99-100 (%)	99.13 %
Sodium(Na)	0-50 (ppm)	47.76 ppm
Appearance (B105556)	White to Off-White Powder	White to Off-White Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility in MeOH , soluble 1 M at 20 °C, clear, colorless	pass	Pass



ALADDIN SCIENTIFIC CORPORATION

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

John Su
QA & QC Manager