

## Certificate of Analysis

Date of Testing:	2023-08-19 11:08:54
Date of Next Testing:	2026-08-18 11:08:54
Product Name:	<b>Betaine</b>
CAS Number:	107-43-7
Specifications & Purity:	Moligand™, SuperPure grade, ≥99%
Lot #:	H2316274
SKU #	<b>B105556</b>
Version	<b>0</b>
<b>Analysis #:</b>	<b>255979</b>
Storage Temperature:	Protected from light

Parameter	Limit Values	Result
Sulfate(SO42-)	0-200 (ppm)	1.06 ppm
Water by Karl Fischer	0-1 (%)	0.21 %
Purity(NonaqueousTitration)	99-101 (%)	99.03 %
Magnesium(Mg)	0-5 (ppm)	1.92 ppm
Potassium(K)	0-50 (ppm)	5.52 ppm
Chloride (Cl-)	0-200 (ppm)	0.54 ppm
UV Absorbance A 1M/280nm, mEtOH	0-0.05	0.02
Sodium(Na)	0-100 (ppm)	70.16 ppm
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
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	0-0.09	0.07
Calcium(Ca)	0-10 (ppm)	9.80 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 , soluble1 M at 20 °C, clear, colorless	pass	Pass



---

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su  
QA & QC Manager