

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-04-08 15:01:10

Date of Next Testing: 2027-04-08 15:01:10

Product Name: **Betaine**

CAS Number: 107-43-7

Specifications & Purity: Moligand™, ≥98%

Lot #: C2429144

SKU #: **B105554**

Version: **1**

Analysis #: **332238**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                                                                 | Limit Values                             | Result                                   |
|---------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Nitrogen by Elemental Analysis                                            | 11.5-12.5 (%)                            | 11.90000 %                               |
| Carbon by Elemental Analysis                                              | 50.2-52.3 (%)                            | 51.10100 %                               |
| Purity(Titration by HClO <sub>4</sub> )(calcd.on<br>anh.substance)        | 97.5-102.5 (%)                           | 99.93000 %                               |
| Heavy metals                                                              | 0-0.001 (%)                              | 0.00000 %                                |
| Water by Karl Fischer                                                     | 0-2 (%)                                  | 0.24880 %                                |
| (As)Arsenic                                                               | 0-0.0002 (%)                             | 0.00000 %                                |
| Appearance (B105554)                                                      | White to Off-White Powder or<br>Crystals | White to Off-White Powder or<br>Crystals |
| Infrared spectrum                                                         | Conforms to Structure                    | Conforms to Structure                    |
| Proton NMR spectrum                                                       | Conforms to Structure                    | Conforms to Structure                    |
| Solubility,Colorless to faint yellow,clear(50<br>mg/mL, H <sub>2</sub> O) | pass                                     | Pass                                     |



John Su  
QA & QC Manager