

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-12-26 09:37:36

Date of Next Testing: 2028-12-25 09:37:36

Product Name: **Betaine**

CAS Number: 107-43-7

Specifications & Purity: Moligand™, ≥98%

Lot #: L2523233

SKU #: **B105554**

Version: **1**

Analysis #: **625875**

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

| Parameter                                                                   | Limit Values                             | Result                                   |
|-----------------------------------------------------------------------------|------------------------------------------|------------------------------------------|
| Nitrogen by Elemental Analysis                                              | 11.5-12.5 (%)                            | 11.59000 %                               |
| Purity(Titration by HClO <sub>4</sub> )(calcd.on<br>anh.substance)          | 97.5-102.5 (%)                           | 99.64000 %                               |
| Heavy metals                                                                | 0-0.001 (%)                              | 0.00000 %                                |
| Water by Karl Fischer                                                       | 0-2 (%)                                  | 1.24190 %                                |
| (As)Arsenic                                                                 | 0-0.0002 (%)                             | 0.00000 %                                |
| Carbon by Elemental Analysis                                                | 50.2-52.3 (%)                            | 50.28000 %                               |
| Appearance (B105554)                                                        | White to Off-White Powder or<br>Crystals | White to Off-White Powder or<br>Crystals |
| 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