

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-03 09:32:45  
Date of Next Testing: 2029-07-02 09:32:45  
Product Name: **Choline chloride**  
CAS Number: 67-48-1  
Specifications & Purity: AR, ≥98%  
Lot #: F2520320  
SKU #: **C108896**  
Version: **2**  
Analysis #: **518280**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.05 (%)	0.00000 %
Heavy metal (as Pb)	0-0.002 (%)	0.00000 %
Assay	98-100 (%)	99.98000 %
Ammonia (NH <sub>4</sub> )	0-0.1 (%)	0.10000 %
Appearance (C108896)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , 500 mg/ml in H <sub>2</sub> O	pass	Pass
Trimethylamine	pass	Pass



John Su  
QA & QC Manager