

Certificate of Analysis

Date of Testing: 2024-11-25 14:26:31

Date of Next Testing: 2028-11-24 14:26:31

Product Name: **Choline chloride**

CAS Number: 67-48-1

Specifications & Purity: AR, ≥98%

Lot #: K2420645

SKU #: **C108896**

Version: **2**

Analysis #: **433562**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Ignition Residue (as sulfate)	0-0.05 (%)	0.00 %
Heavy metal (as Pb)	0-0.002 (%)	0.00 %
Assay	98-100 (%)	98.81 %
Ammonia (NH ₄)	0-0.1 (%)	0.10 %
Appearance (C108896)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , 500 mg/ml in H ₂ O	pass	Pass
Trimethylamine	pass	Pass



John Su
QA & QC Manager