

## Certificate of Analysis

Date of Testing: 2023-11-30 11:43:17  
Date of Next Testing: 2027-11-29 11:43:17  
Product Name: **Choline hydroxide solution**  
CAS Number: 123-41-1  
Specifications & Purity: 44 wt. % in H<sub>2</sub>O  
Lot #: K2324054  
SKU #: **C166651**  
**Analysis:** **265909**  
Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(Titration by HClO <sub>4</sub> )	38-50 (%)	46.61 %
Appearance (C166651)	Colorless to tan liquid	Colorless to tan liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager