

Certificate of Analysis

Date of Testing: 2025-03-06 15:38:46

Date of Next Testing: 2029-03-05 15:38:46

Product Name: **Choline bitartrate**

CAS Number: 87-67-2

Specifications & Purity: $\geq 98\%$, contains silicon dioxide as stabilizer

Lot #: H1724016

SKU #: **C113873**

Version: **1**

Analysis #: **478085**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(NonaqueousTitration)	97.5-102.5 (%)	99.40%
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$	16.5-17.5 (°)	17.40°
Nitrogen by Elemental Analysis	5.2-5.8 (%)	5.70%
Carbon by Elemental Analysis	42.1-43.1 (%)	42.10%
Appearance (C113873)	white powder	White powder
Solubility in H ₂ O , slightly cloudy Clear 100 mg/ml	Pass	Pass



John Su
QA & QC Manager