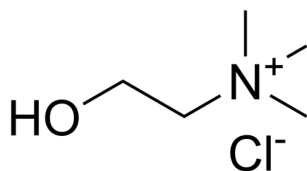


Certificate of Analysis

Compound Information

Product Name:	Choline (chloride)
Cat. No.:	1083195
CAS No.:	67-48-1
Molecular Formula:	C ₅ H ₁₄ ClNO
Molecular Weight:	139.62
Chemical Structure:	



Batch Information

Batch No.:	Lf1214190340
Storage:	2-8°C, sealed storage, away from moisture
Test Date:	2022-12-14
Retest Date:	2025-12-13
Origin:	Shanghai, China

QC Summary

Appearance:	White to off-white (Solid)
¹H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥97.0%
Residue on Ignition:	0.13%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

E-mail: product@leyan.com

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai