

Certificate of Analysis

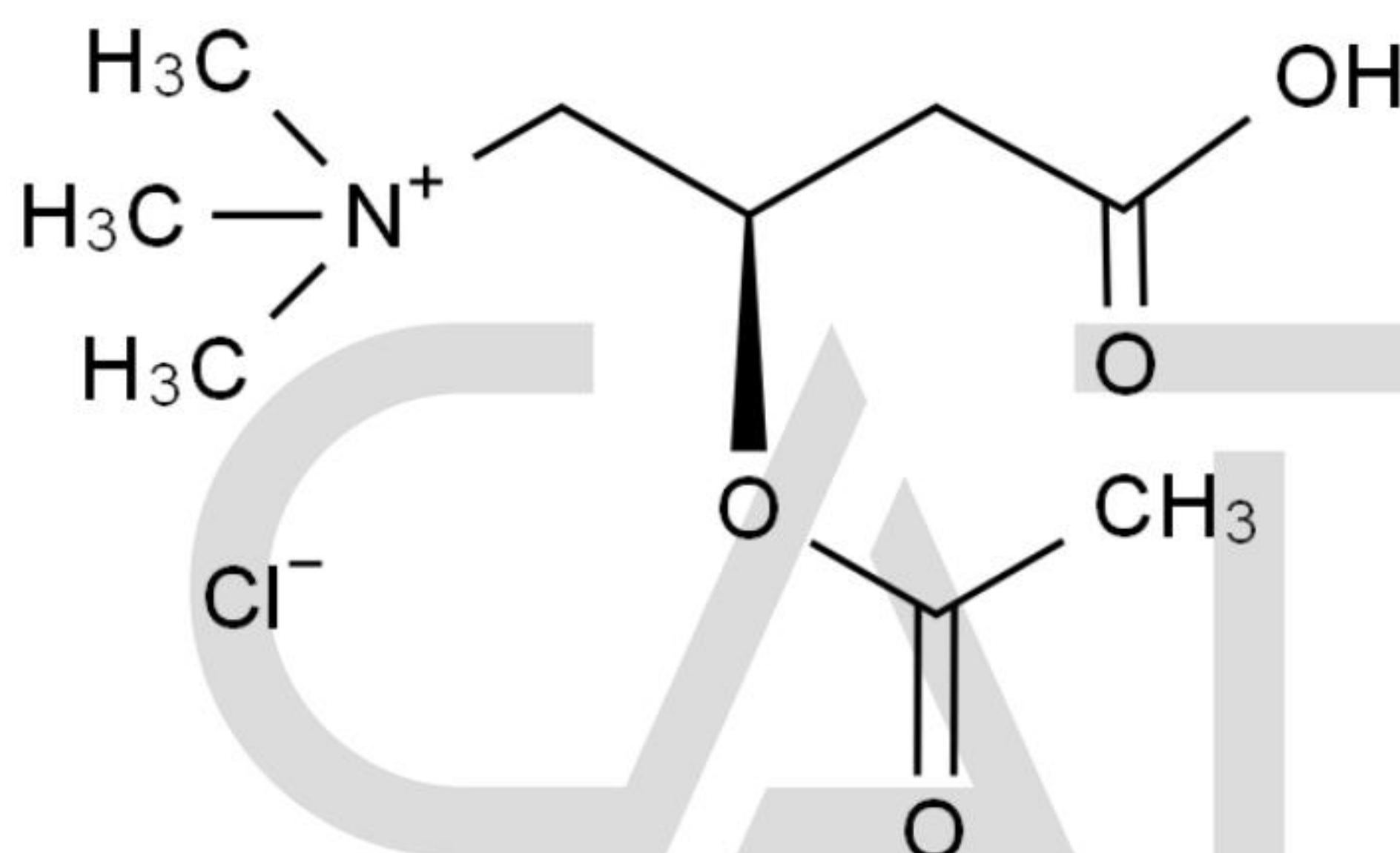
Reference Material & Standard

Product Name:	Acetyl-L-carnitine Hydrochloride	Catalogue Number:	CCFD201050
Synonyms:	N/A	Lot Number:	0916-RG-0145
CAS Number:	5080-50-2	Expiry Date:	Sep 15, 2029
Molecular Formula:	C ₉ H ₁₈ NO ₄ Cl	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	204.24 35.45	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	96.8%
Assay	qNMR	96.0%
Uncertainty		±0.8%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Sep 16, 2025

Date: Sep 17, 2025

Date: Sep 17, 2025



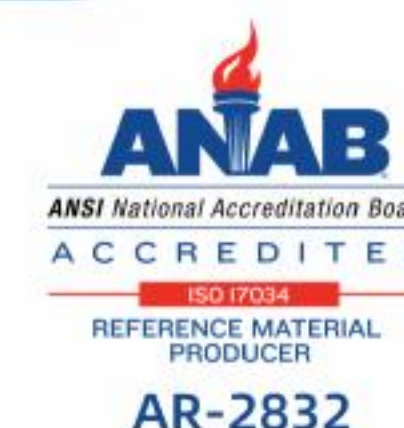
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