

Certificate of Analysis

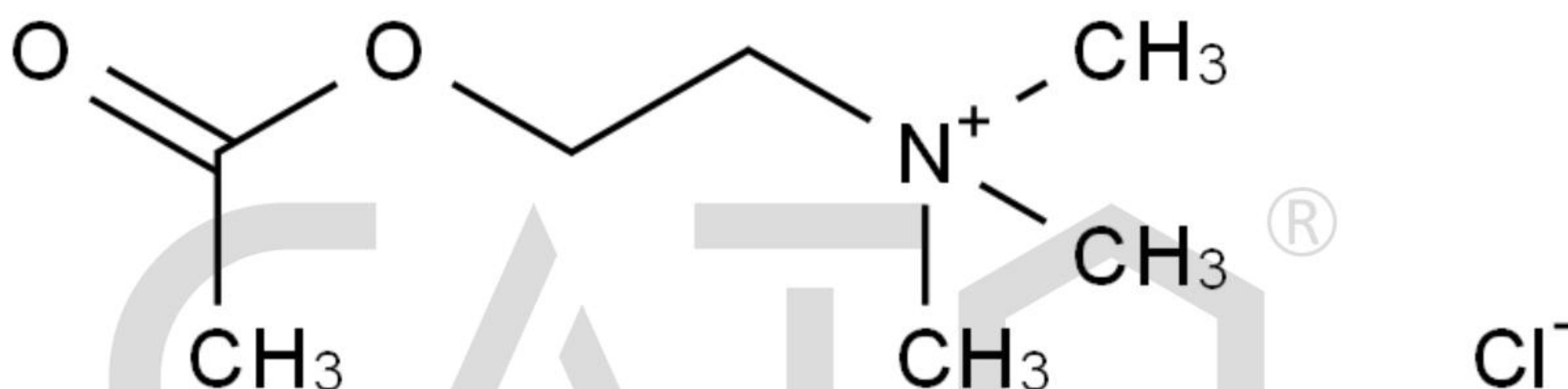
Reference Material & Standard

Product Name:	Acetylcholine Chloride	Catalogue Number:	CCAD301227
Synonyms:	N/A	Lot Number:	0518-RH-0059
CAS Number:	60-31-1	Expiry Date:	May 17, 2030
Molecular Formula:	C ₇ H ₁₆ NO ₂ Cl	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	146.21 35.45	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.193%
Water Content	Karl Fischer	5.0873%
Assay		94.1%
Uncertainty		±0.6%

Comment:

- The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity ELSD (\%)} / 100\%$$

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.
- 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:

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Approved by General Manager:

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Date: May 18, 2026

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