

Certificate of Analysis

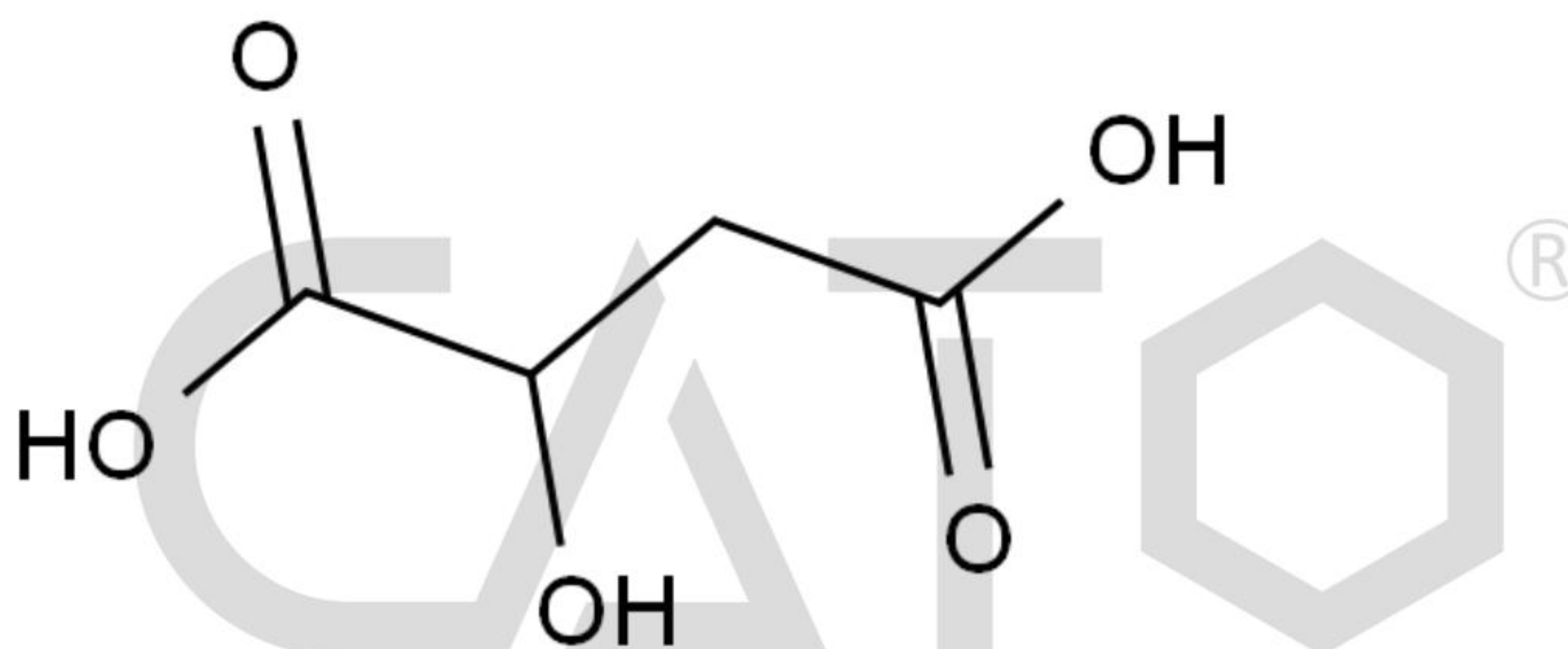
Reference Material & Standard

Product Name:	DL-Malic Acid	Catalogue Number:	CFAD310530
Synonyms:	N/A	Lot Number:	0916-RG-0119
CAS Number:	6915-15-7	Expiry Date:	Sep 15, 2029
Molecular Formula:	C ₄ H ₆ O ₅	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	134.09		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	ELSD	95.8%
Assay	qNMR	97.9%
Uncertainty		±0.4%

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:

Hin Lam

Approved by General Manager:

David

Date: Sep 16, 2025

Date: Sep 17, 2025

Date: Sep 17, 2025



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