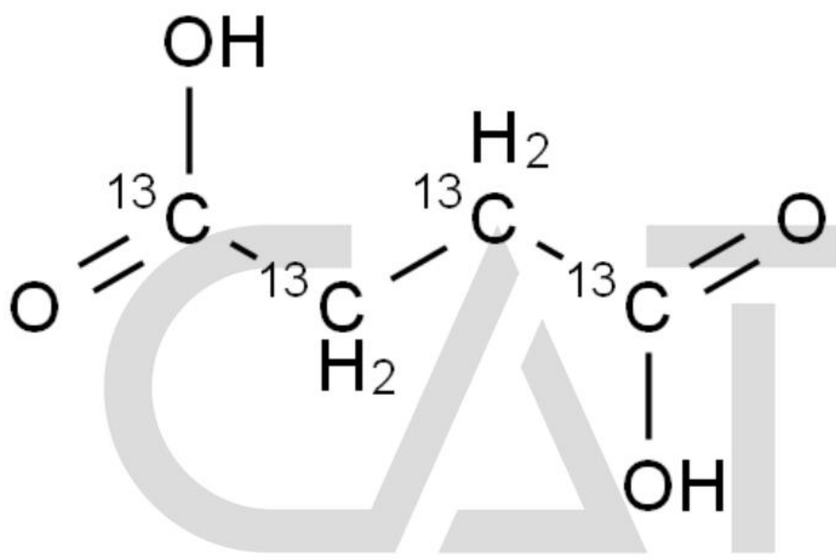
Certificate of Analysis

Reference Material & Standard

Product Name:	Succinic Acid-13C4	**Catalogue Number:**	CCHM704622
Synonyms:	N/A	**Lot Number:**	1015-RH-0030
CAS Number:	201595-67-7	**Expiry Date:**	Oct 07, 2030
Molecular Formula:	$[13C]_4H_6O_4$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	122.06	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Pale Beige Solid
Chemical Purity	GC	98.6%
Isotopic Purity		99.1%
Uncertainty		±0.3%

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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 Date: Oct 19, 2026

Reviewed by: Hinlam Date: Oct 19, 2026

Approved by General Manager: David Date: Oct 19, 2026

CATO Research Chemicals Inc.