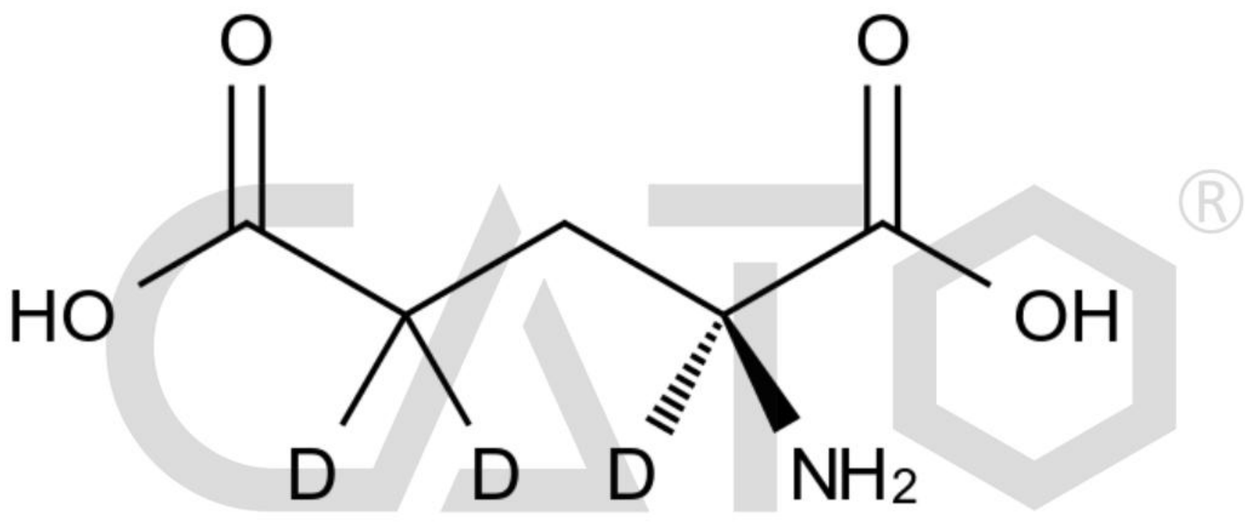
Certificate of Analysis

Reference Material & Standard

Product Name:	L-Glutamic-2,4,4-d3 Acid	**Catalogue Number:**	C1930210
Synonyms:	N/A	**Lot Number:**	1012-RH-0022
CAS Number:	203805-84-9	**Expiry Date:**	Mar 19, 2030
Molecular Formula:	$C_5H_6D_3NO_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	150.15	**Shipping Condition:**	Shipping with Ice Packs
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	HNMR	Confirmed
Chemical Purity	ELSD	99.1%
Isotopic Purity		97.9%
Uncertainty		±0.2%

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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 13, 2026

Reviewed by: Hinlam Date: Oct 13, 2026

Approved by General Manager: David Date: Oct 13, 2026

CATO Research Chemicals Inc.