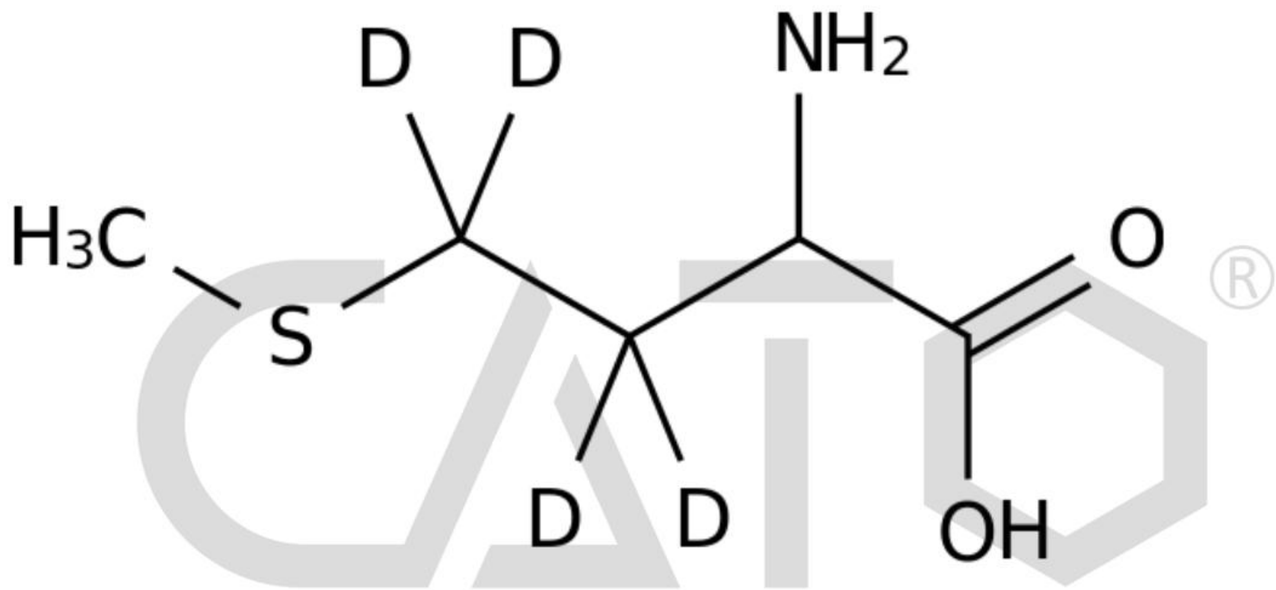
Certificate of Analysis

Reference Material & Standard

Product Name:	(±)-Methionine-d4	**Catalogue Number:**	CCFD201384
Synonyms:	N/A	**Lot Number:**	0906-RH-0005
CAS Number:	93709-61-6	**Expiry Date:**	Feb 24, 2030
Molecular Formula:	$C_5H_7D_4NO_2S$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	153.24	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Chemical Purity	ELSD	99.9%
Isotopic Purity		99.1%
Uncertainty		±0.1%

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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: Sep 08, 2026

Reviewed by: Hinlam Date: Sep 08, 2026

Approved by General Manager: David Date: Sep 08, 2026

CATO Research Chemicals Inc.