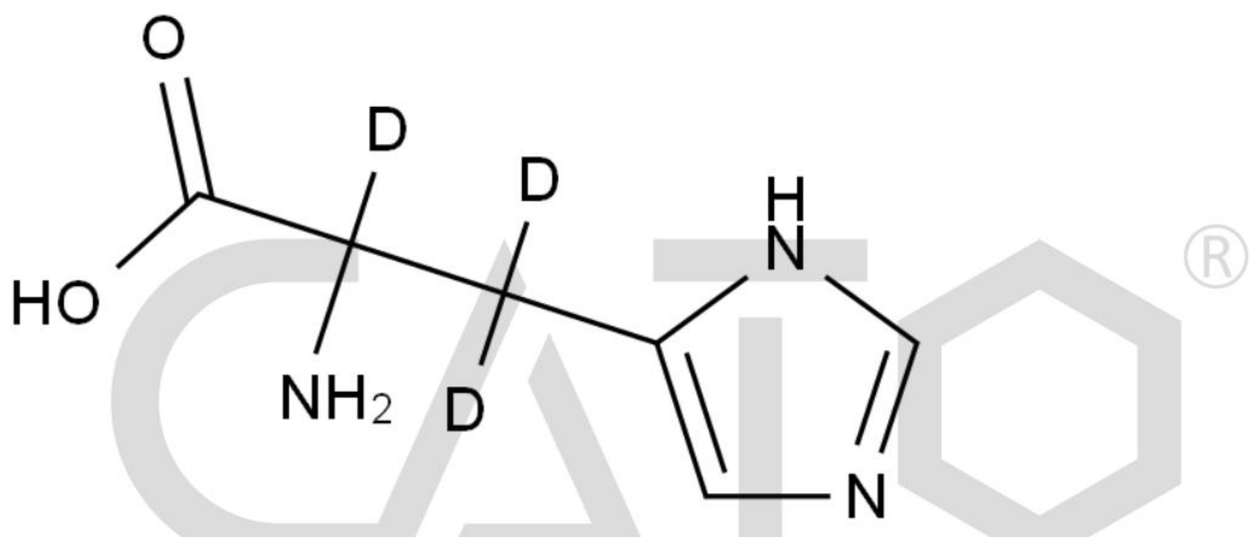
Certificate of Analysis

Reference Material & Standard

Product Name:	DL-Histidine-alpha,beta,beta-d3	**Catalogue Number:**	CCFD201343
Synonyms:	N/A	**Lot Number:**	0904-RH-0101
CAS Number:	344299-50-9	**Expiry Date:**	Jan 21, 2030
Molecular Formula:	$C_6H_6D_3N_3O_2$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	158.17	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Brown Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	97.1%
Isotopic Purity		95.73%(D3: 87.93%; D2: 11.33%; D1: 0.74%)
Uncertainty		±0.6%

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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 07, 2026

Reviewed by: Hinlam Date: Sep 07, 2026

Approved by General Manager: David Date: Sep 07, 2026

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