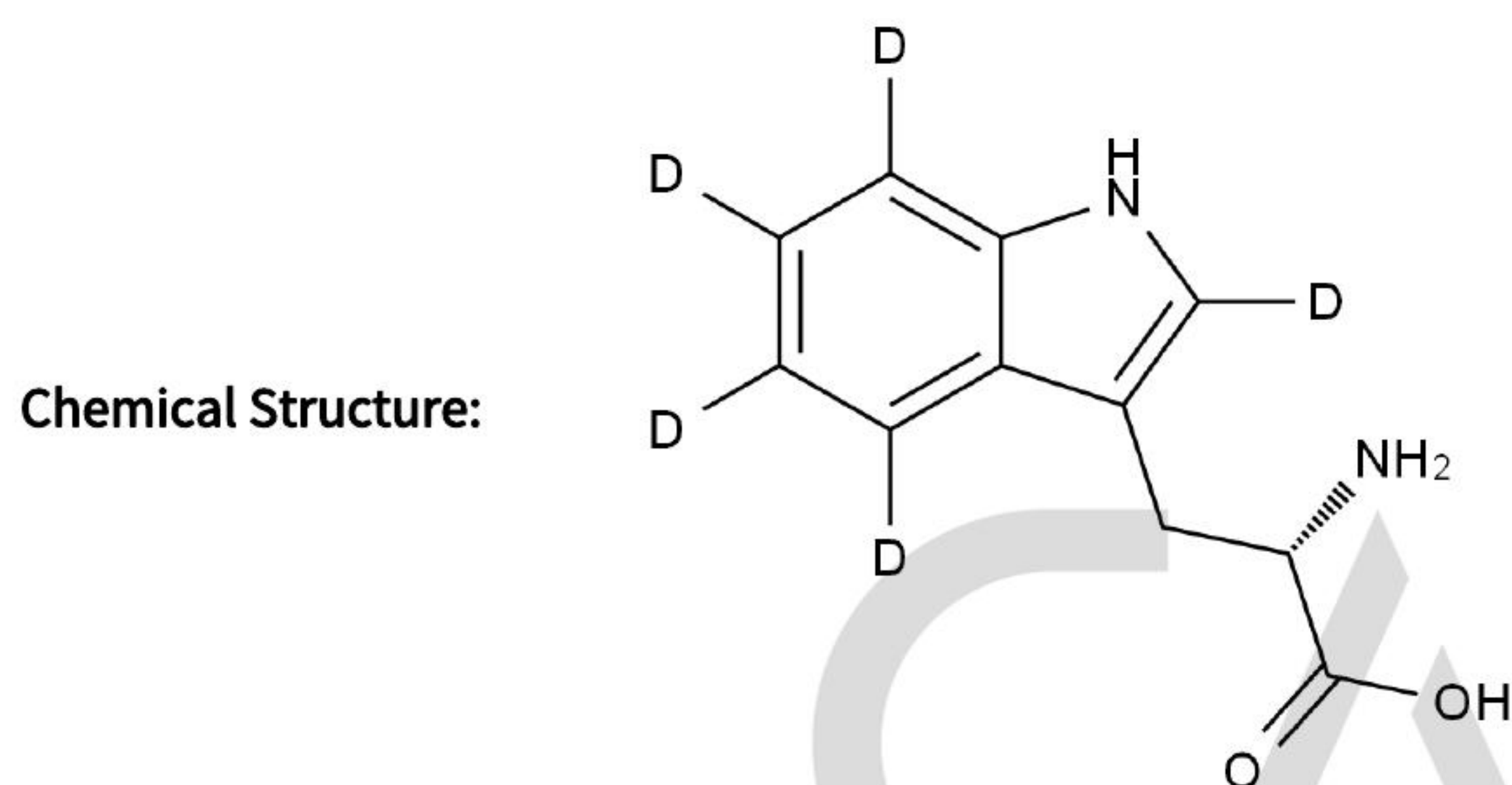


Certificate of Analysis

Reference Material & Standard

Product Name:	L-Tryptophan-d5	Catalogue Number:	CCFD201014
Synonyms:	N/A	Lot Number:	1113-RE-0004
CAS Number:	62595-11-3	Expiry Date:	Oct 26, 2026
Molecular Formula:	C ₁₁ H ₇ D ₅ N ₂ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	209.26		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	UPLC	99.8%
Isotopic Purity		99.8%
Uncertainty		±2.0%

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: Nov 14, 2023

Date: Nov 14, 2023

Date: Nov 14, 2023

