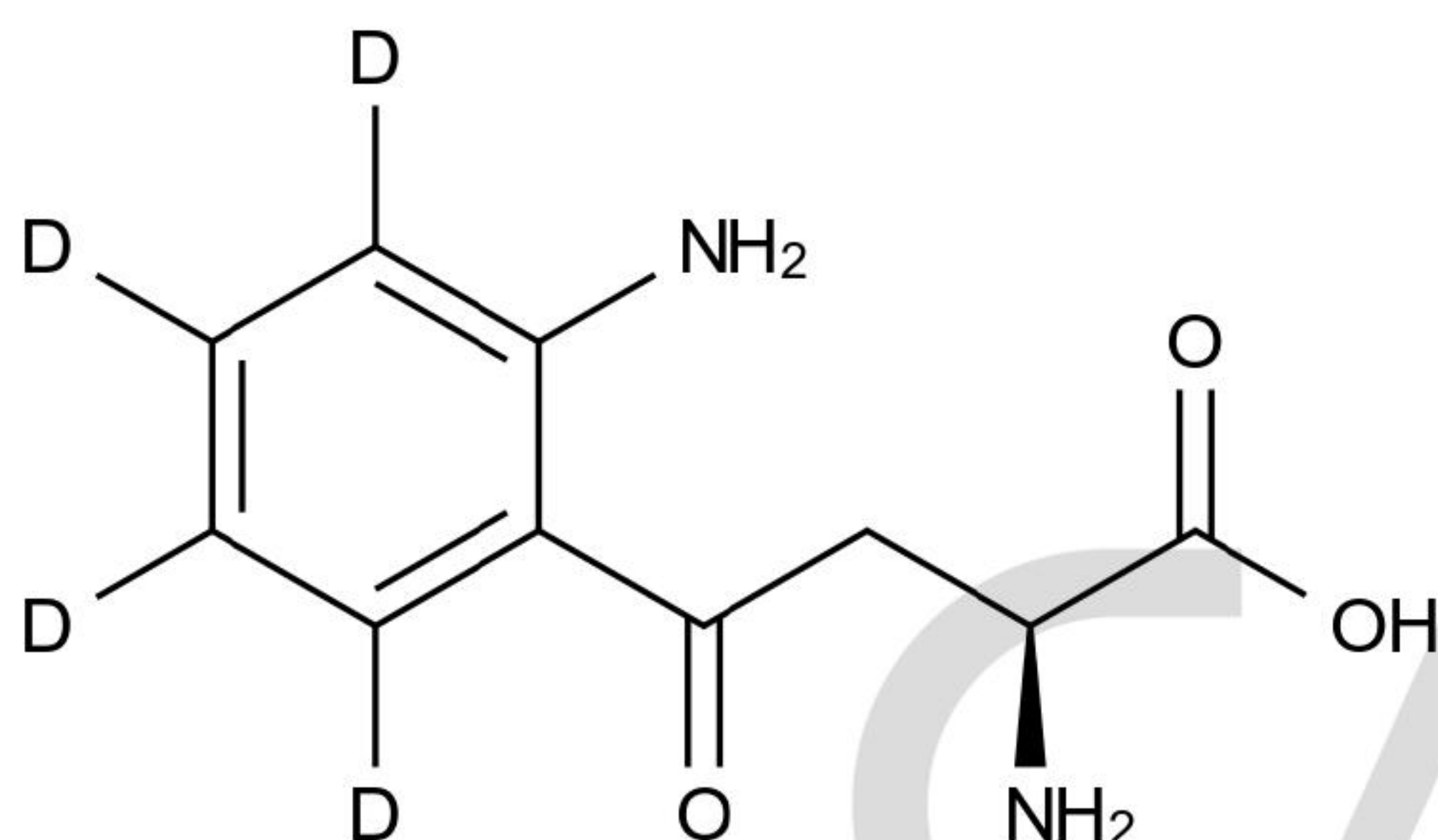


Certificate of Analysis

Reference Material & Standard

Product Name:	L-Kynurenine-d4	Catalogue Number:	CS261784
Synonyms:	N/A	Lot Number:	0831-RE-0012
CAS Number:	194546-33-3	Expiry Date:	Jun 08, 2025
Molecular Formula:	C ₁₀ H ₈ D ₄ N ₂ O ₃	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	212.24		
Chemical Structure:			



Warning:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	99.1%
Isotopic Purity		98.9%
Optical Rotation		[α] _D ^{25.0} (c=0.21, H ₂ O): -28.9°
Assay	qNMR	91.0%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
The compound contains 2.1% D-Kynurenine-d4(RT 5.54) according to its Chiral HPLC.
2. 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:

Hinlam

Aproved by General Manager:

David

Date: Sep 01, 2023

Date: Sep 04, 2023

Date: Sep 04, 2023

