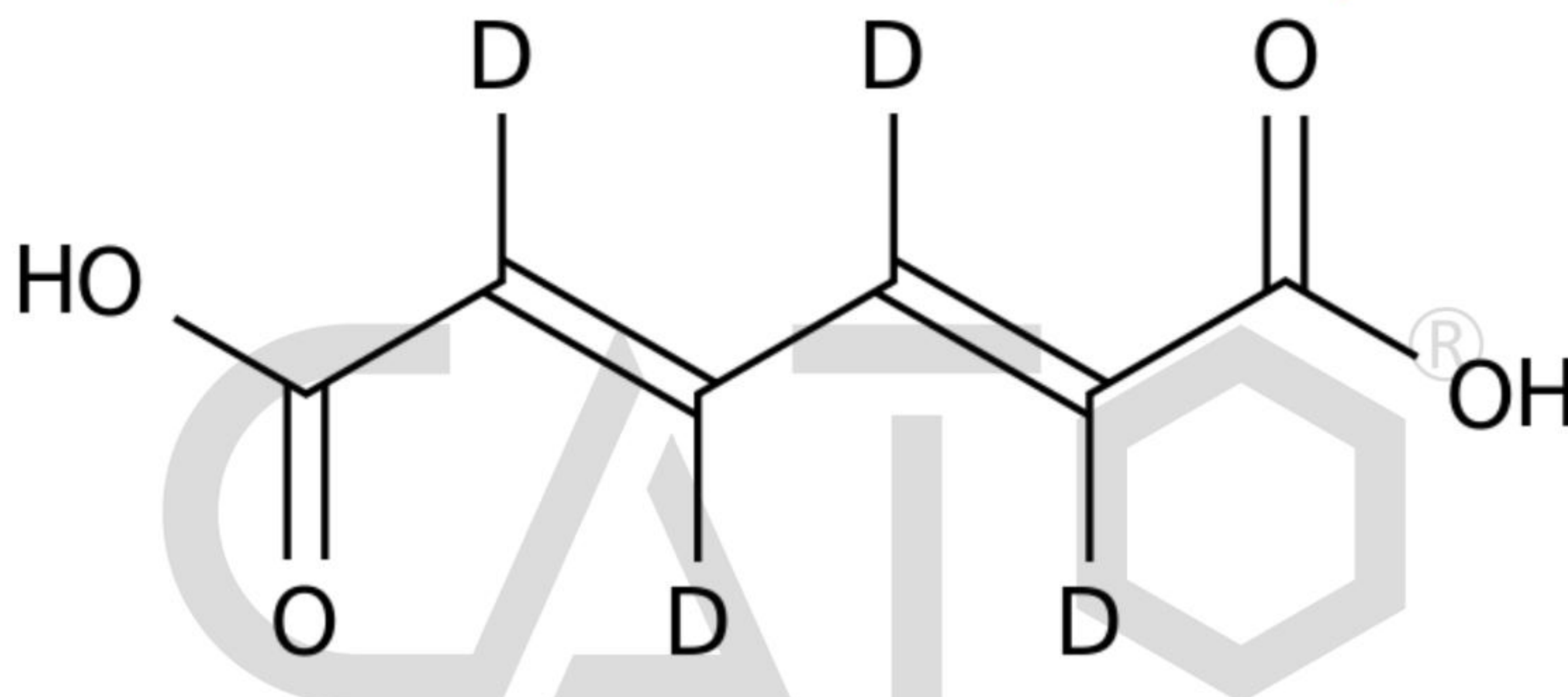


Certificate of Analysis

Reference Material & Standard

Product Name:	trans,trans-Muconic Acid-d4	Catalogue Number:	CCHM704531
Synonyms:	N/A	Lot Number:	1201-RE-0034
CAS Number:	1185239-59-1	Expiry Date:	Apr 17, 2030
Molecular Formula:	C6H2D4O4	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	146.13	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Brown Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	99.3%
Isotopic Purity		98.2%
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:

Lily

Reviewed by:

Lisa

Aproved by General Manager:

David

Date: Dec 05, 2023

Date: Dec 05, 2023

Date: Dec 05, 2023

