

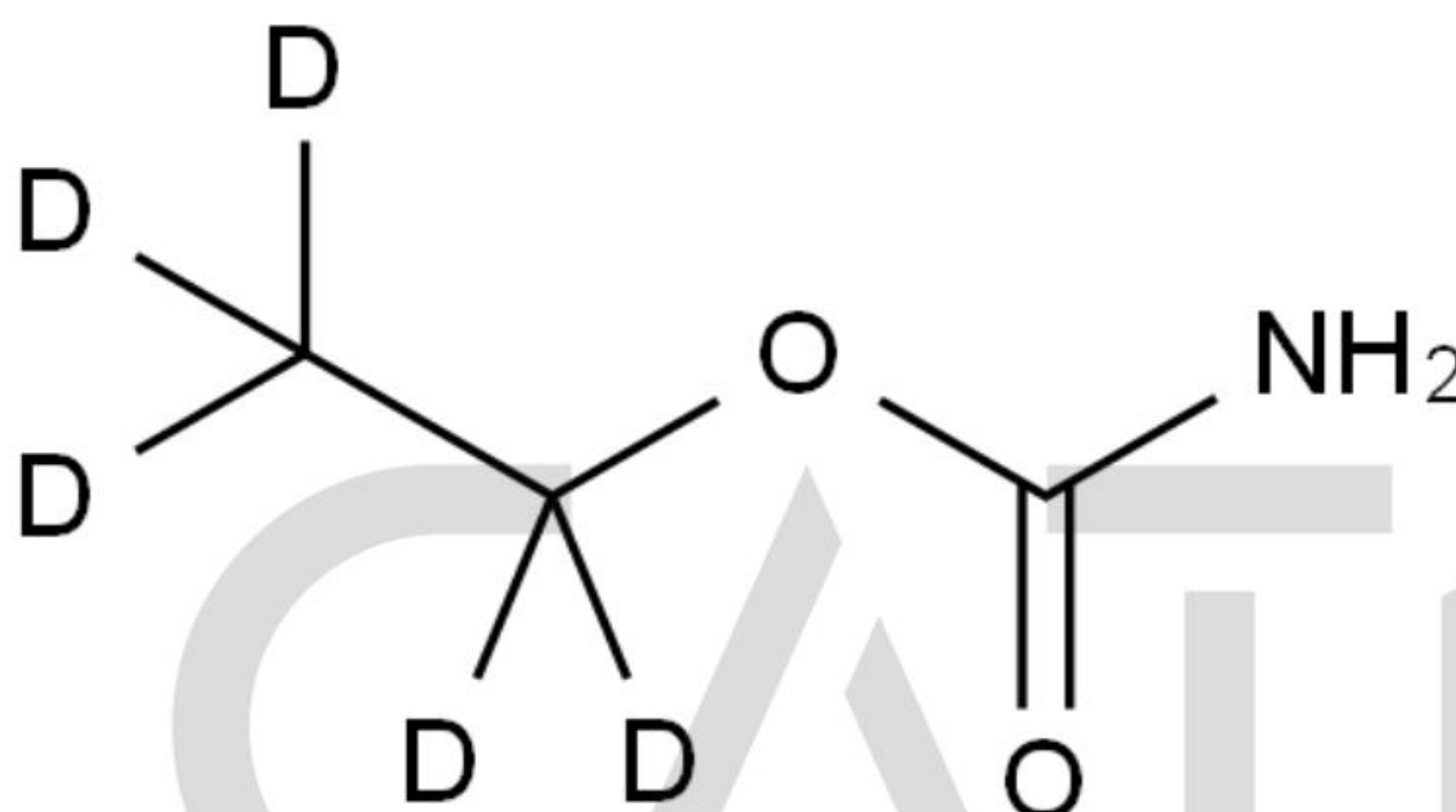
Certificate of Analysis

Reference Material & Standard

Product Name:	Urethane-D5	Catalogue Number:	CCFD200411
Synonyms:	N/A	Lot Number:	1209-RD-0042
CAS Number:	73962-07-9	Expiry Date:	May 28, 2029
Molecular Formula:	C3H2D5NO2	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	94.12	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Crystalline Solid
Identification	GCMS&CNMR&HNMR	Confirmed
Chemical Purity	GC	100.000%
Isotopic Purity		99.5%
Water Content	Karl Fischer	1.0904%
Assay		98.9%
Uncertainty		±0.2%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$$

Water Content is considered as absolute effect, GC purity is considered as relative effect.

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 29, 2025

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