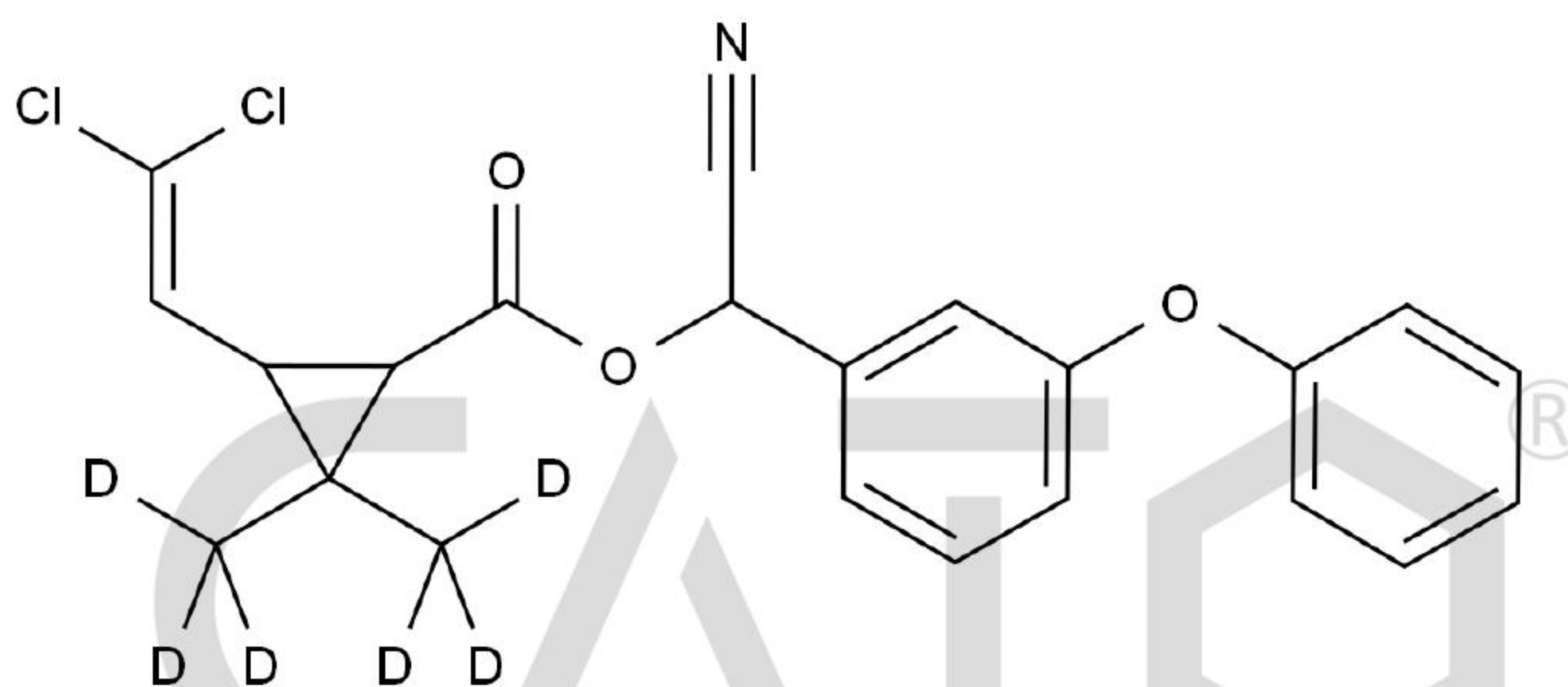


Certificate of Analysis

Reference Material & Standard

Product Name:	trans-Cypermethrin D6 (dimethyl D6)	Catalogue Number:	CCPD101972
Synonyms:	N/A	Lot Number:	0305-RG-0061
CAS Number:	82523-65-7	Expiry Date:	Sep 10, 2029
Molecular Formula:	C ₂₂ H ₁₃ D ₆ Cl ₂ NO ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	422.33		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Chemical Purity	GC	99.4%
Isotopic Purity		99.4%
Assay	qNMR	98.8%
Uncertainty		±3.0%

Comment:

1. No chromatogram available.

Assay was determined by quantitative ¹H-NMR.

Mixture of Stereoisomers: C(R(cyano)1R3S/S(cyano)1S3R) and D (R(cyano) 1S3R/S(cyano) 1R3S), ratio unknown. Chemical Purity: 99.40%, Expanded Uncertainty U = 2.00%; Isotopic Value: 99.40%, Expanded Uncertainty U = 1.00% No Isotopic Composition available.

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

Approved by General Manager:

David

Date: Mar 07, 2025

Date: Mar 07, 2025

Date: Mar 07, 2025

