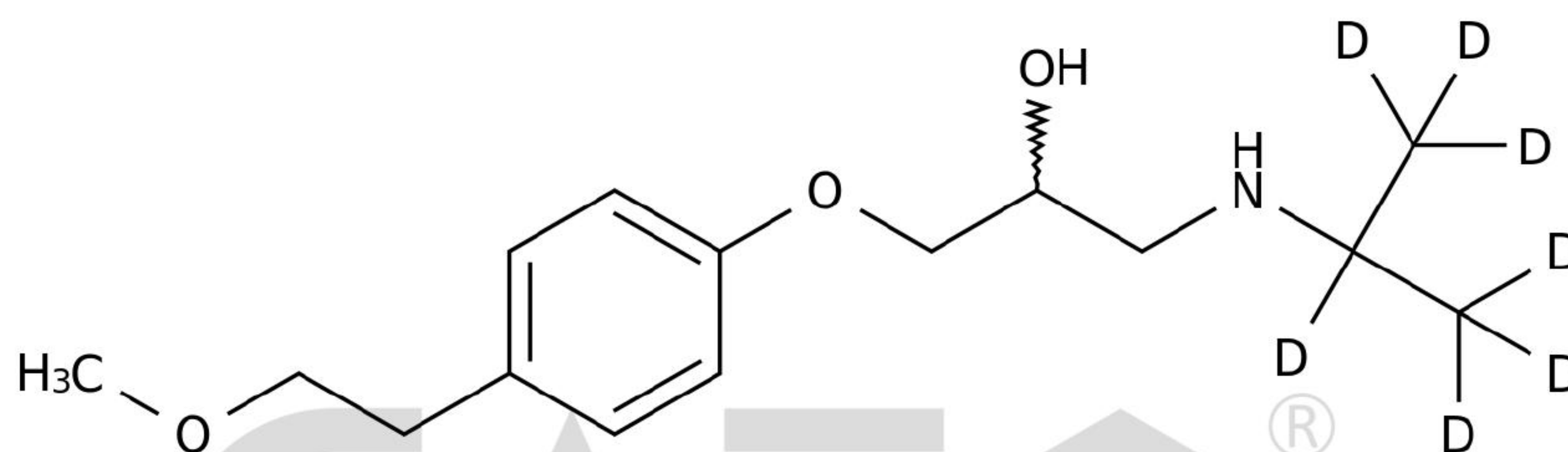


Certificate of Analysis

Reference Material

Product Name:	rac Metoprolol-d7	Catalogue Number:	CCAD302655
Chemical Name:	N/A	Lot Number:	0726-RD-0023
CAS Number:	959787-96-3	Expiry Date:	May 15, 2025
Molecular Formula:	C ₁₅ H ₁₈ D ₇ NO ₃	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	274.41		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow to Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	NMR	98.0%
Isotopic Purity		99.9%
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:

Xenia

Reviewed by:

Cady

Approved by General manager:

David

Date: May 11, 2021

Date: Jul 27, 2022

Date: Jul 27, 2022

