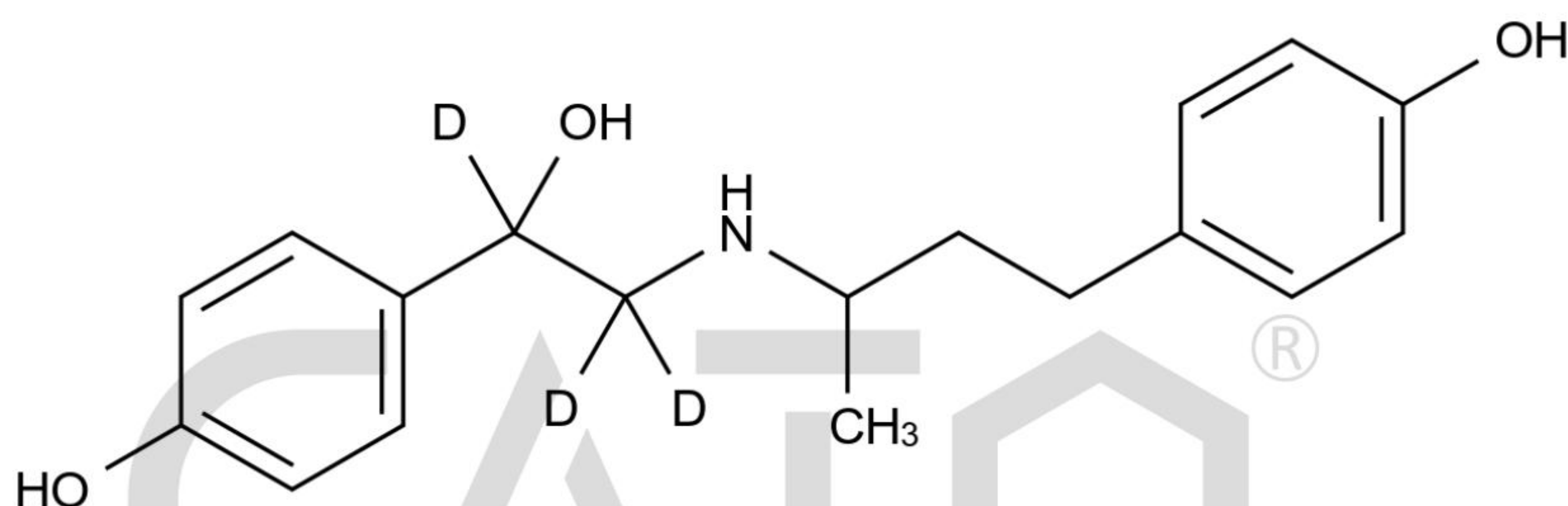


Certificate of Analysis

Reference Material & Standard

Product Name:	Ractopamine-d3 (Mixture of Diastereomers)	Catalogue Number:	CCAD304295
Synonyms:	N/A	Lot Number:	0819-RF-0006
CAS Number:	1219908-63-0	Expiry Date:	Jan 04, 2026
Molecular Formula:	C18H20D3NO3	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	304.40		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	99.6%
Isotopic Purity		99.0%
Assay	qNMR	98.1%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ^1H -NMR.
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: Aug 19, 2024

Date: Aug 19, 2024

Date: Aug 19, 2024

