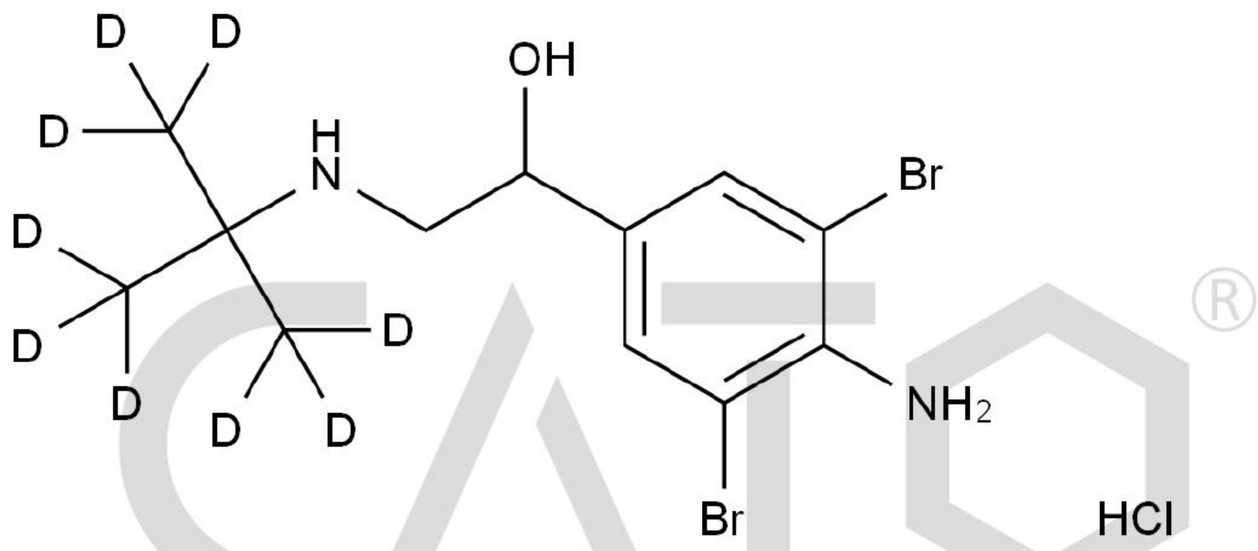
Certificate of Analysis

Reference Material & Standard

Product Name:	Brombuterol-d9 Hydrochloride	**Catalogue Number:**	CCAD301094
Synonyms:	N/A	**Lot Number:**	0715-RF-0045
CAS Number:	1353867-94-3	**Expiry Date:**	Apr 07, 2026
Molecular Formula:	$C_{12}H_9D_9Br_2N_2O$ HCl	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	375.15 36.46	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	HNMR	Confirmed
Chemical Purity	HPLC	99.8%
Isotopic Purity		98.0%
Uncertainty		±2.0%

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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: Lisa Date: Jul 17, 2024

Reviewed by: Hinlam Date: Jul 18, 2024

Approved by General Manager: David Date: Jul 18, 2024

CATO Research Chemicals Inc.