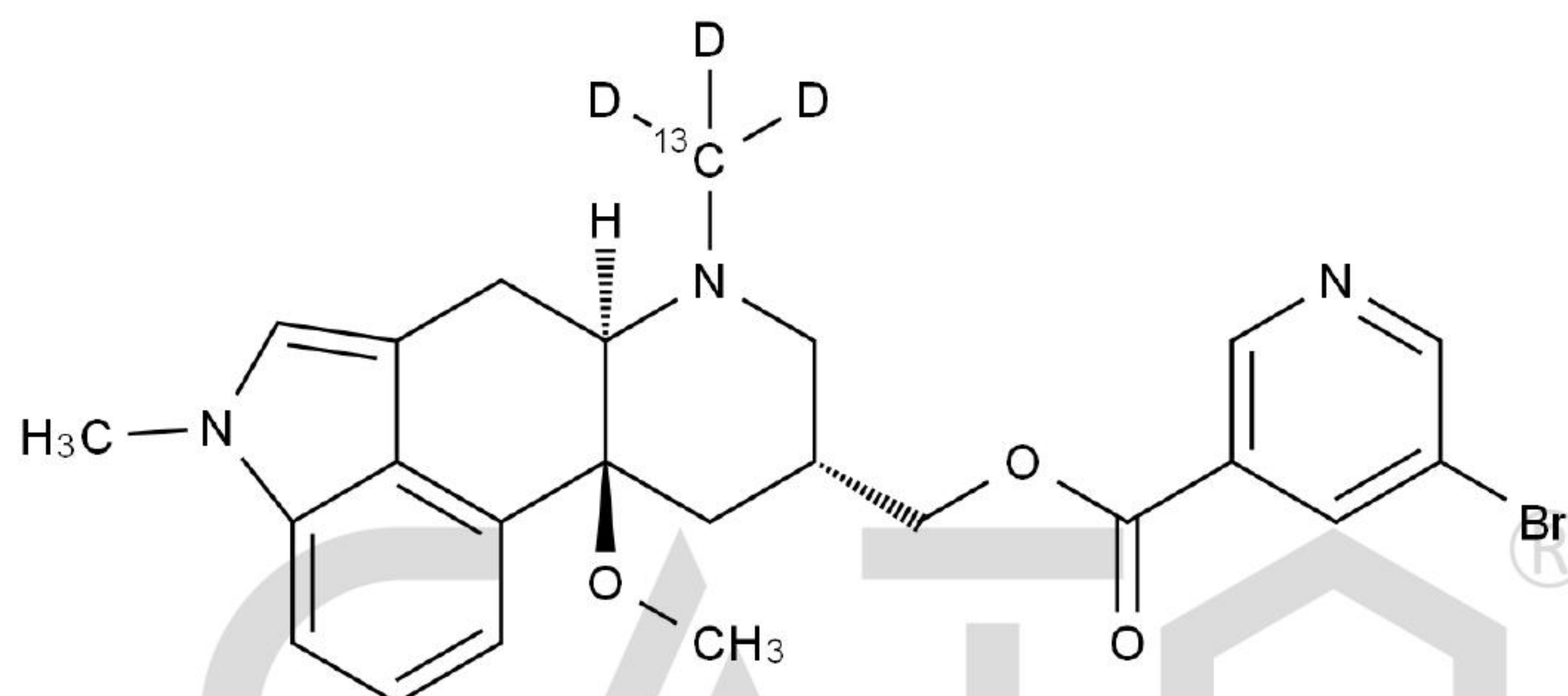


Certificate of Analysis

Reference Material

Product Name:	Nicergoline-13C-d3	Catalogue Number:	C4X-208513
Chemical Name:	N/A	Lot Number:	0111-RD-0009
CAS Number:	N/A	Expiry Date:	Jul 11, 2025
Molecular Formula:	C23[13C]H23D3N3O3Br	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	488.40		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Chemical Purity	HPLC	98.2%
Isotopic Purity		99.5% D ; 99.0% 13C
Residual Solvents	NMR	0.3% diethyl ether and 0.1% dichloromethane
Optical Rotation		[α] _D 25.0(c=0.34, 96% ethanol): +4.9°
Assay	qNMR	97.1%

Comment:

Assay was determined by quantitative ¹H-NMR.
The compound contains 0.3% M+0 according to its LC-MS.

Signature:

Prepared by:

Hinlam

Reviewed by:

Debia

Aporoved by General manager

David

Date: Jul 11, 2022

Date: Sep 20, 2022

Date: Sep 20, 2022

