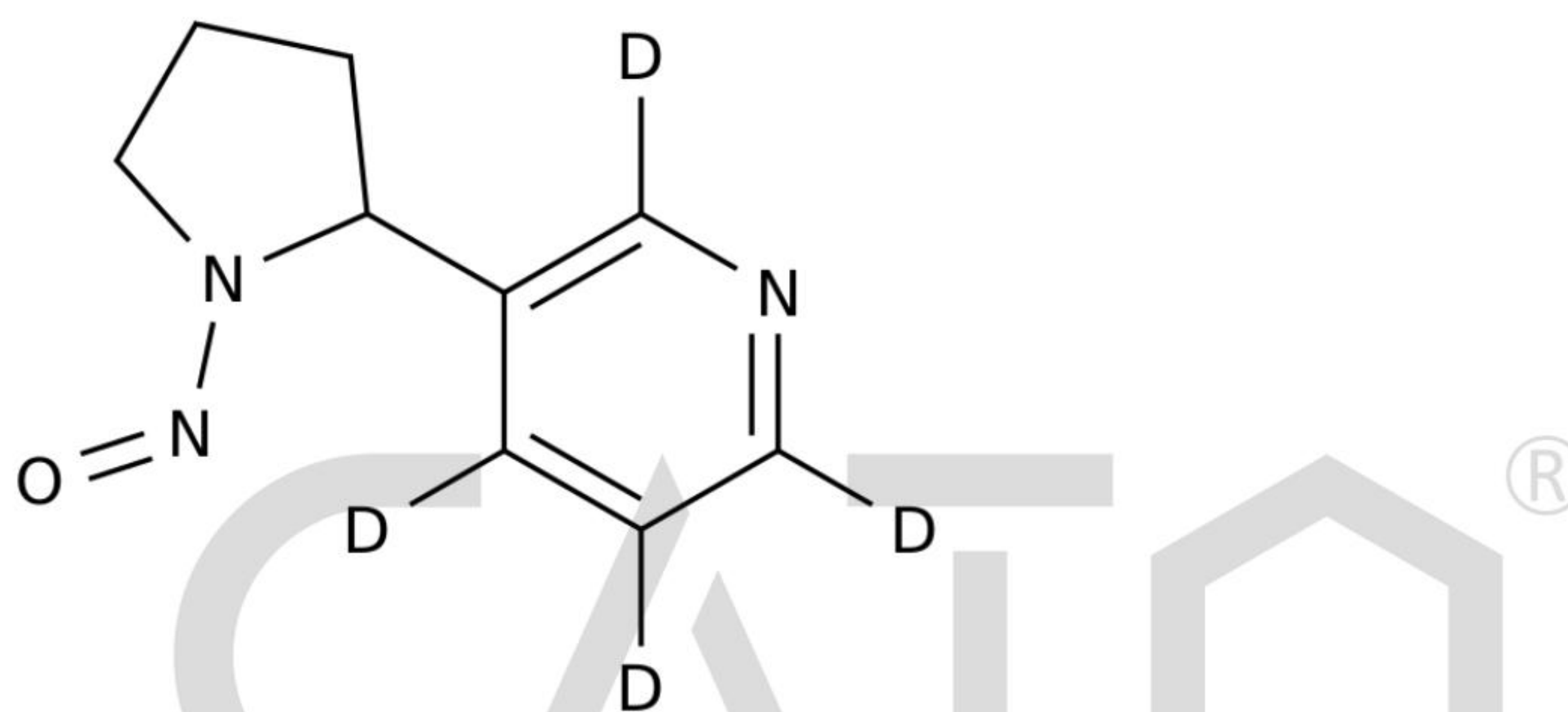


Certificate of Analysis

Reference Material & Standard

Product Name:	rac N'-Nitrosonornicotine-d4	Catalogue Number:	CWLT600745
Synonyms:	N/A	Lot Number:	1127-RE-0094
CAS Number:	66148-19-4	Expiry Date:	May 30, 2025
Molecular Formula:	C9H7D4N3O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	181.23		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow to Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	99.9%
Isotopic Purity		97.8%
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:

Lisa

Reviewed by:

Hin Lam

Aporoved by General Manager:

David

Date: Dec 01, 2023

Date: Dec 01, 2023

Date: Dec 01, 2023

