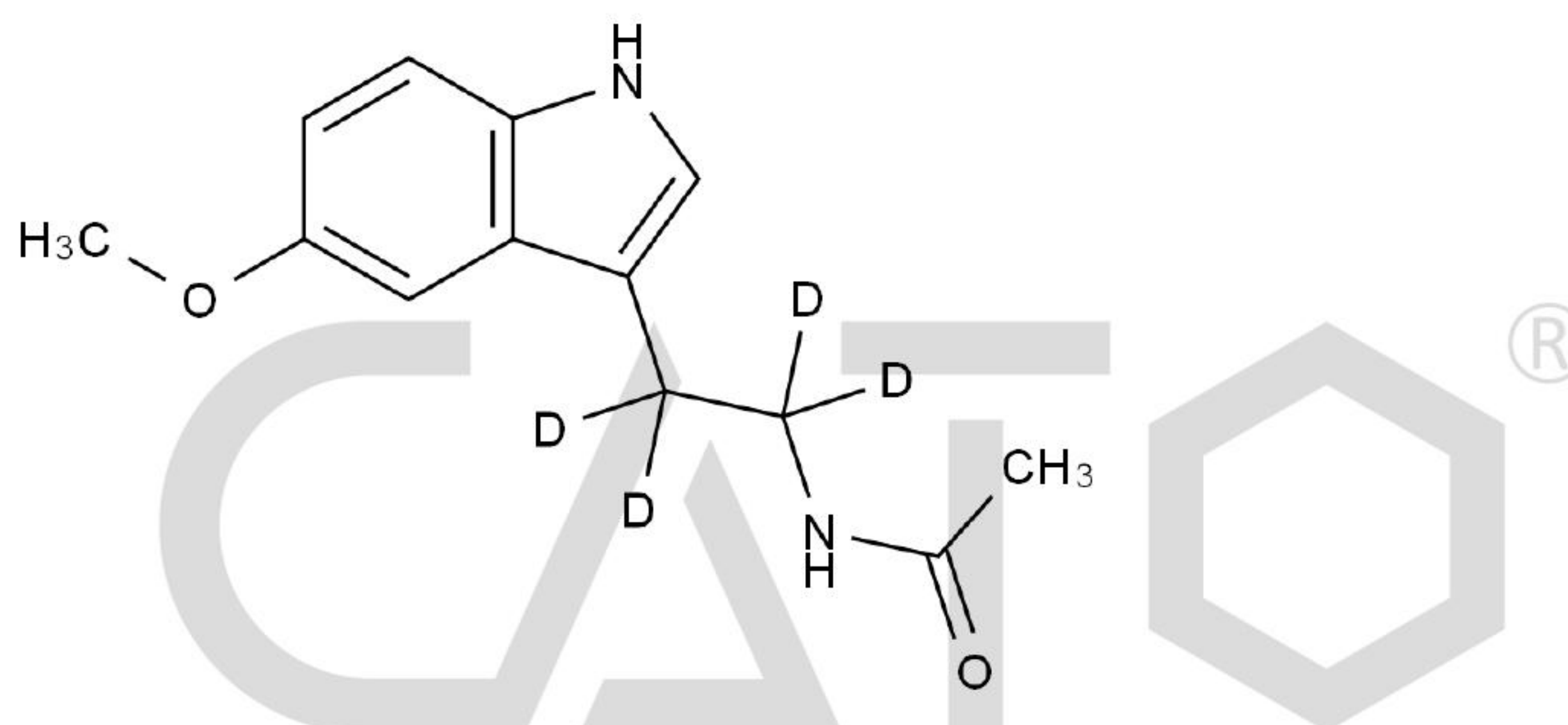


Certificate of Analysis

Reference Material & Standard

Product Name:	Melatonin-d4	Catalogue Number:	CCAD301445
Synonyms:	N/A	Lot Number:	0527-RH-0063
CAS Number:	66521-38-8	Expiry Date:	Mar 05, 2029
Molecular Formula:	C ₁₃ H ₁₂ D ₄ N ₂ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	236.30	Shipping Condition:	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&HNMR	Confirmed
Chemical Purity	HPLC	99.4%
Isotopic Purity		99.66(D4:99.47%; D2:0.21%; D1:0.32%)
Uncertainty		±0.1%

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

Approved by General Manager:

David

Date: May 28, 2026

Date: May 28, 2026

Date: May 28, 2026



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