



CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number:	D292012	CAS Number:	1189929-21-2
Product:	5-O-Desmethyl Donepezil-d5	Synonym:	1-(Benzyl-d5)-4-[(5-hydroxy-6-methoxy-1-oxo-indan-2-yl)methyl]piperidine;
Structure:		Molecular Formula:	$C_{23}H_{22}D_5NO_3$
		Molecular weight:	370.50
		Source of Product:	Synthetic
		Solubility:	Chloroform (Slightly, Sonicated), Methanol (Slightly)
Lot Number:	1-JUZ-48-3	Purity:	98%
Shipping Condition:	This Product Is Stable To Be Shipped At Room Temperature	Storage Condition:	-20°C

2. Warning

Warning 1: Not Determined **Warning 2:** **Warning 3:**

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White Solid
Elemental Analysis	Conforms	%C: 74.31, %H: 7.41, %N: 3.77
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.0%
NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	-0.2° (c = 0.1, Chloroform)
HPLC Purity	>95%	98.83% (210 nm)

Additional Information: TLC Conditions: SiO₂; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.1; Visualized with UV and AMCS; Single Spot, R_f = 0.50. Elemental Analysis: (Theoretical) %C: 74.56, %H: 7.35, %N: 3.78 Normalized Intensity: d₀ = 0.01%, d₁ = 0.01%, d₂ = 0.01%, d₃ = 0.06%, d₄ = 4.60%, d₅ = 95.32%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Eric Beaton	Toni Rantanen	My Nguyen	3/13/2020	3/11/2030

