

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Catalogue S683502 CAS NA Number:

Synonym: 8-(1,1-Dimethylethyl)-N-ethyl-N-propyl-1,4-

dioxaspiro[4.5]decane-2-methanamine-d4; Impulse-d4; Impulse-d4; KWG 4168-d4; Prosper-d4; Prosper-d4; Prosper Hoggar-d4;

Spiroketalamine-d4;

Molecular Formula: C18H31D4NO2 Molecular weight:

301.5

Source of Product:

Synthetic Solubility:

Chloroform (Slightly), Methanol (Slightly)

**Purity:** 95%

Storage Condition: 4°C

Number:

Spiroxamine-d4

Structure:

Product:

Me Me Me

Lot 5-WBZ-5-2 Number:

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Off-White to Pale Yellow Oil to Thick Oil Clear Pale Yellow Oil **Appearance** 

**NMR** Conforms to Structure Conforms

**HPLC Purity** Report Result 98.76% (ELSD)

MS Conforms to Structure Conforms

**Isotopic Purity** Report Result 94.7% (d0 = 0.00%) $+0.4^{\circ}$  (c = 0.2, Methanol) Specific Rotation Report Result

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm$  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

C of A Approved **Reviewed By Reviewed By Test Date Retest Date** By

Chanell Chu Evan Burns Toni Rantanen 2/15/2022 2/13/2026

Evan Burns