

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Catalogue D721020

Number:

Product: (S)-Duloxetine Phthalamide

Structure:

CAS 199191-67-8 Number:

Synonym: 2-[[Methyl[(3S)-3-(1-naphthalenyloxy)-3-(2-

thienyl)propyl]amino]carbonyl]benzoic Acid;

Molecular Formula:

C26H23NO4S

Molecular weight:

445.53

Source of Product:

**Synthetic** 

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

**Purity:** Lot 1-JNZ-13-2 Number:

Me

This Product Is Stable To Be **Shipping** 

Condition: Shipped With Dry Ice 95%

Storage Condition: -86°C

2. Warning

Warning 1: Warning 2: Warning 3:

CO<sub>2</sub>H

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid Appearance

**NMR** Conforms to Structure Conforms

Elemental Analysis Conforms %C: 69.05, %H: 5.32, %N: 3.64

MS Conforms Conforms to Structure

**HPLC Purity** Report Result 95.66% (210 nm)

 $+61.3^{\circ}$  (c = 0.5, 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 ± 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** 

Nicole Yip Toni Rantanen Chanell Chu 8/8/2022 8/6/2026