



## CERTIFICATE OF ANALYSIS

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### 1. Identification

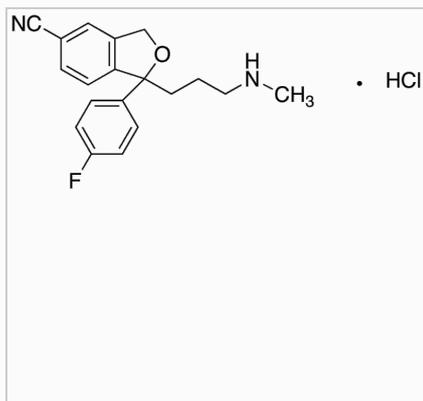
**Catalogue Number:** D230846

**CAS Number:** 97743-99-2

**Product:** rac Desmethyl Citalopram Hydrochloride

**Synonym:** 1-(4-Fluorophenyl)-1-(3-methylamino-propyl)-1,3-dihydro-isobenzofuran-5-carbonitrile Hydrochloride; 1-(3-Methylaminopropyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile;

**Structure:**



**Molecular Formula:**

C<sub>19</sub>H<sub>20</sub>ClFN<sub>2</sub>O

**Molecular weight:**

346.83

**Source of Product:**

N/A

**Solubility:**

Acetonitrile (Slightly),  
Methanol (Sparingly), Water  
(Slightly)

**Lot Number:** 5-SXG-186-1

**Purity:** 97%

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

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Off-White to Light Yellow Gel to Solid	Pale Yellow to Light Yellow Gel
NMR	Conforms to Structure	Conforms
F NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 60.16, %H: 6.03, %N: 7.28
MS	Conforms to Structure	Conforms
FT-IR	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.54% (240 nm)
Chloride Content	Report Result	9.3%
Water Content	Report Result	~6.6% based on Elemental Analysis

**Additional Information:** Contains: ~4.3% Chloroform

**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

<b>Reviewed By</b>	<b>Reviewed By</b>	<b>C of A Approved By</b>	<b>Test Date</b>	<b>Retest Date</b>
Evan Burns	Toni Rantanen	Chanell Chu	8/31/2022	8/29/2029
				