



## CERTIFICATE OF ANALYSIS

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### 1. Identification

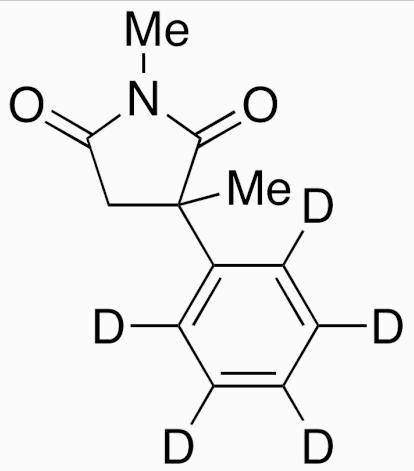
**Catalogue Number:** M271902

**CAS Number:** 1189980-63-9

**Product:** Methylsuximide-d5

**Synonym:** 1,3-Dimethyl-3-(phenyl-d5)-2,5-pyrrolidinedione; (+/-)-Mesuximide-d5; 1,3-Dimethyl-3-(phenyl-d5)succinimide; Celontin-d5; Mesuximide-d5; Mesuximidum-d5; Methylsuximid-d5; N,2-Dimethyl-2-(phenyl-d5)succinimide; PM 396-d5;

**Structure:**



**Lot Number:** 12-CNN-169-1

**Purity:** 96%

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

**Storage Condition:** 4°C

**Molecular Formula:**

C<sub>12</sub>H<sub>8</sub>D<sub>5</sub>NO<sub>2</sub>

**Molecular weight:**

208.27

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly, Sonicated)

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

<b>Tests:</b>	<b>Specifications:</b>	<b>Results:</b>
Appearance	Pale Yellow to Dark Yellow Oil to Semi-Solid	Yellow to Dark Yellow Oil to Semi-Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 68.77, %H: 6.44, %N: 6.99
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.8% (d0 = 0.00%)
HPLC Purity	Report Result	97.43% (205 nm)
Specific Rotation	Report Result	+0.3° (c = 0.3, Methanol)

**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

<b>Reviewed By</b>	<b>Reviewed By</b>	<b>C of A Approved By</b>	<b>Test Date</b>	<b>Retest Date</b>
Neha Khanna	Toni Rantanen	Chanell Chu	8/6/2021	8/4/2025

