



## CERTIFICATE OF ANALYSIS

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### 1. Identification

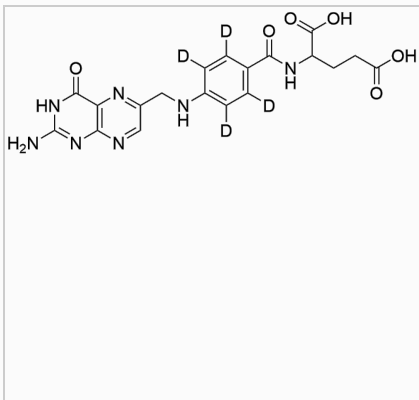
**Catalogue Number:** F680302

**CAS Number:** 171777-72-3

**Product:** Folic Acid-d4

**Synonym:** N-[4-[(2-Amino-3,4-dihydro-4-oxo-6-pteridiny)l)methyl]amino]benzoyl]-L-glutamic Acid-d2; Acifolic-d4; Aspol-d4; Cytofol-d4; Folacid-d4; Folacin-d4; Folbal-d4; Folcidin-d4; Foldine-d4; Folettes-d4; Foliamin-d4; Folicet-d4; Folipac-d4; Folovit-d4; Folsan-d4; Folsaure-d4; Folsav-d4; Folvite-d4; Incafol-d4; Millafol-d4; Pteroyl-L-monoglutamic Acid-d4; Pteroylglutamic Acid-d4; Pteroylmonoglutamic Acid-d4; Vitamin Bc-d4; Vitamin Be-d4; Vitamin M-d4; NSC 3073-d4;

**Structure:**



**Molecular Formula:**

C<sub>19</sub>H<sub>15</sub>D<sub>4</sub>N<sub>7</sub>O<sub>6</sub>

**Molecular weight:**

445.42

**Source of Product:**

Synthetic

**Solubility:**

Aqueous Base (Slightly),  
DMSO (Slightly, Heated,  
Sonicated)

**Lot Number:** 1-JPD-111-3

**Purity:** 97%

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

**Storage Condition:** 4°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Yellow to Dark Yellow Solid	Yellow to Dark Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.81, %H: 4.75, %N: 20.08
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.9% (d0 = 0.04%)
Specific Rotation	Report Result	+18.5° (c = 0.1, 0.1N NaOH)
Water Content	Report Result	7.7% by Karl Fischer
HPLC Purity	Report Result	96.39% (285 nm)

**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

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Evan Burns	Toni Rantanen	Chanell Chu	6/28/2021	6/26/2025
				