



## CERTIFICATE OF ANALYSIS

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### 1. Identification

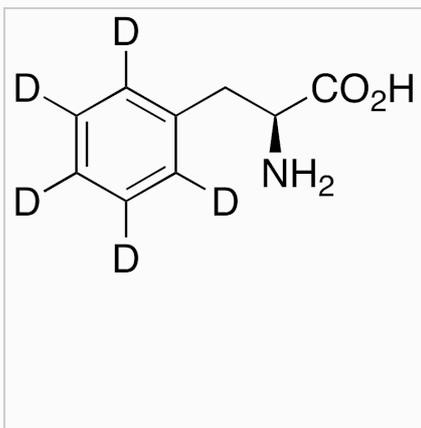
**Catalogue Number:** P319418

**CAS Number:** 56253-90-8

**Product:** L-Phenylalanine-d5

**Synonym:** (2S)-2-Amino-3-phenylpropanoic Acid-d5; (S)-(-)-Phenylalanine-d5; (S)- $\alpha$ -Amino- $\beta$ -phenylpropionic Acid-d5; (S)- $\alpha$ -Aminohydrocinnamic Acid-d5; (S)- $\alpha$ -Amino-benzenepropanoic Acid-d5;

**Structure:**



**Molecular Formula:**

C<sub>9</sub>D<sub>5</sub>H<sub>6</sub>NO<sub>2</sub>

**Molecular weight:**

170.22

**Source of Product:**

N/A

**Solubility:**

3.8 mg/mL in Water (sonicated), 1.5 mg/mL in DMSO (heated, son.), Not soluble in

**Lot Number:** 11-FGD-029-1

**Purity:** 98%

**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:
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 62.47, %H: 6.63, %N: 8.15
HPLC Purity	Report Result	99.79% (210 nm)
MS	Conforms to Structure	Conforms
Appearance	White to Off-White Solid	White Solid
Isotopic Purity	>95%	97.9%
Specific Rotation	Report Result	-30.0° (c = 0.1, Water)

**Additional Information:** Normalized Intensity: d0 = 0.08%, d1 = 1.39%, d2 = 0.41%, d3 = 0.26%, d4 = 2.77%, d5 = 95.09%

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

**Reviewed By**

Evan Burns

*Evan Burns*

**Reviewed By**

Toni Rantanen

*Toni Rantanen*

**C of A Approved  
By**

Chanell Chu

*Chanell Chu*

**Test Date**

7/20/2022

**Retest Date**

7/18/2026