



## CERTIFICATE OF ANALYSIS

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### 1. Identification

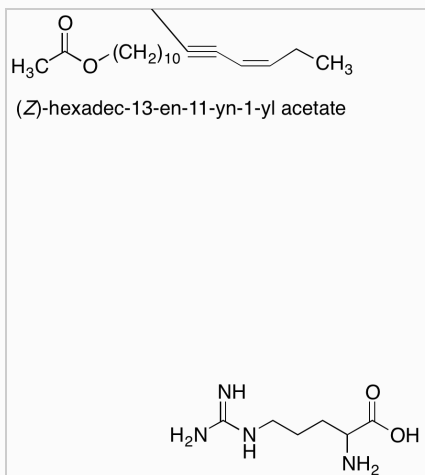
**Catalogue Number:** A614345

**CAS Number:** NA

**Product:** DL-Arginine Hydrate

**Synonym:** ( $\pm$ )-Arginine; 2-Amino-5-(  
carbamimidamido)pentanoic Acid  
Hydrate;

**Structure:**



**Molecular Formula:**

$C_6H_{14}N_4O_2 \cdot xH_2O$

**Molecular weight:**

174.20 + x(18.02)

**Source of Product:**

N/A

**Solubility:**

Aqueous Acid (Sparingly),  
Methanol (Slightly, Sonicated),  
Water (Soluble, Heated)

**Lot Number:** 1-MJJ-175-1

**Purity:** 98%

**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	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	100.00% (ELSD)
C NMR	Conforms to Structure	Conforms
Water Content	Report Result	9.8% by Karl Fischer

**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  $\pm 2\%$ . 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	Reviewed By	C of A Approved By	Test Date	Retest Date
Hanxiang Li	Toni Rantanen	Chanell Chu	6/3/2021	6/1/2025

Hanxiang Li