



CERTIFICATE OF ANALYSIS

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1. Identification

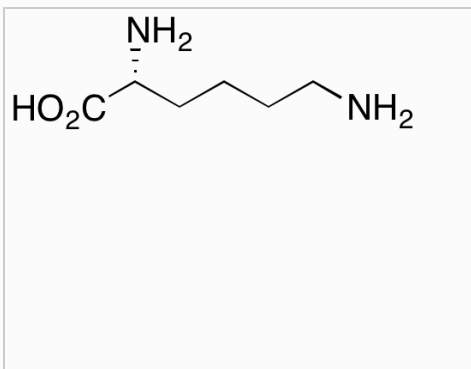
Catalogue Number: L468930

CAS Number: 923-27-3

Product: D-Lysine

Synonym: (R)-Lysine;

Structure:



Molecular Formula:

$C_6H_{14}N_2O_2$

Molecular weight:

146.19

Source of Product:

N/A

Solubility:

Methanol (Very Slightly),
Water (Soluble)

Lot Number: 2022-CPO-050

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: |
|--------------------|---------------------------|--------------------------------|
| Appearance | White to Pale Beige Solid | Off-White Solid |
| NMR | Conforms to Structure | Conforms |
| Elemental Analysis | Conforms | %C: 47.14, %H: 9.71, %N: 18.15 |
| HPLC Purity | Report Result | 100.00% (ELSD) |
| MS | Conforms to Structure | Conforms |
| Specific Rotation | Report Result | -12.3° (c = 0.3, Water) |
| C NMR | Conforms to Structure | Conforms |

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 |
|-------------|---------------|---------------------|------------|-------------|
| Nicole Yip | Toni Rantanen | Christina Gouliaras | 11/25/2022 | 11/23/2026 |