

Product: L-Proline-13C5,15N

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue P755998 CAS Number: NA Number:

Synonym: (-)-2-Pyrrolidinecarboxylic Acid-13C5,15N; (-

)-Proline-13C5,15N; (S)-(-)-Proline-13C5,15N; (S)-2-Carboxypyrrolidine-13C5,15N; (S)-2-Pyrrolidinecarboxylic Acid-13C5,15N; (S)-Proline-13C5,15N; 2-

Pyrrolidinecarboxylic Acid-13C5,15N; L-(-)-Proline-13C5,15N; L-Pyrrolidine-2-carboxylic Acid-13C5,15N; L-a-Pyrrolidinecarboxylic Acid-13C5,15N; NSC 46703-13C5,15N;

Proline-13C5,15N;

Molecular Formula:

¹³C₅H₉¹⁵NO₂

Molecular weight:

121.09

Source of Product:

N/A Solubility:

Water (Slightly)

Purity: 98%

Storage

Condition: -20°C

Structure:

H₂¹³C·13</sup>CH₂ 13 H₂¹³C, 13</sup>C, OH

Lot 2024-TCO-010

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

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance White to Off-White Solid Off-White Solid

NMRConforms to StructureConformsC NMRConforms to StructureConformsMSConforms to StructureConformsIsotopic Purity>95%99.4%

HPLC Purity Report Result 99.98% (ELSD)

Elemental Analysis Conforms %C: 49.62, %H: 7.47, %N: 11.66

Additional Information: Normalized Intensity: 13C0 = 0.01%, 13C1 = 0.01%, 13C2 = 0.03%, 13C3 = 0.01%, 13C4 = 0.13%, 13C5 = 3.18%, 13C6 = 96.64%

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 swathi reddy

Reviewed By Toni Rantanen

C of A Approved By Chanell Chu 2/7/2024

Chanell Chu 2/7/2024

Chanell Chu 2/7/2024