

Product: L-Glutamine-13C5

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CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue G597001 CAS 184161-19-1 Number: Number:

> Synonym: (S)-2,5-Diamino-5-oxopentanoic Acid-13C5;

> > 2-Aminoglutaramic Acid-13C5; Acustasin-13C5; Aesgen 14-13C5; Cebrogen-13C5; Glumin-13C5; L-2-Aminoglutaramidic Acid-13C5; L-Glutamic Acid γ-Amide-13C5; Levoglutamide-13C5; NSC 27421-13C5;

Saforis-13C5; Stimulina-13C5; y-Glutamine-

13C5;

Structure: O Molecular Formula: റ П

13C5H10N2O3

Molecular weight:

151.11

Source of Product:

N/A

Solubility:

Chloroform (Slightly), Methanol (Slightly), Water

(Slightly)

Purity: Lot 5-CAL-135-1 98% Number:

This Product Is Stable To Be Storage Shipping Condition: 4°C Condition: Shipped At Room Temperature

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid Appearance

Conforms to Structure NMR Conforms MS Conforms to Structure Conforms >95% 97.7% **Isotopic Purity**

HPLC Purity 100.00% (ELSD) Report Result

C NMR Conforms Conforms to Structure

Normalized Intensity: d0 = 0.10%, d1 = 0.50%, d2 = 0.11%, d3 = 0.00%**Additional Information:**

2.81%, d4 = 3.28%, d5 = 93.19%

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
Sarbjeet Kaur

Toni Rantanen

Reviewed By

C of A Approved By Christina Gouliaras

8/22/2022

Test Date

Retest Date 8/20/2026

Hope

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