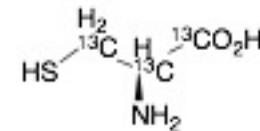


CERTIFICATE OF ANALYSIS**1. Identification**Catalogue Number

C995004

Lot Number

712247053-1-1

StructureSynonyms

L-Cysteine-1,2,3-13C3

CAS Number

202114-66-7

Solubility

Methanol (Very Slightly), Water (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula¹³C₃H₇NO₂SSource of Product

N/A

Long Term Storage Conditions

4°C

Molecular Weight

124.14

Purity

>95%

2. Warnings

Not Determined

3. Analytical InformationTestsSpecificationsResults

Appearance

White to Off-White Solid

White to Off-White Solid

NMR

Conforms to Structure

Conforms

C NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 29.20, %H: 5.32, %N: 11.17

HPLC Purity

>95%

99.48% (ELSD)

MS

Conforms to Structure

Conforms

Isotopic Purity

>95%

99.0%

Specific Rotation

Report Result

+2.6° (c = 0.1, 5N HCl)

Additional InformationNormalized Intensity: ¹³C₀ = 0.50%, ¹³C₁ = 0.13%, ¹³C₂ = 1.25%, ¹³C₃ = 98.12%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. SignaturesReviewed byReviewed byC of A Approved byTest Date

6/19/2025

Retest Date

6/17/2029

Jessica Wang Chi

Product Quality Specialist

Toni Rantanen

Manager, Quality Assurance

Quality Assurance Associate