

# Certificate of Analysis

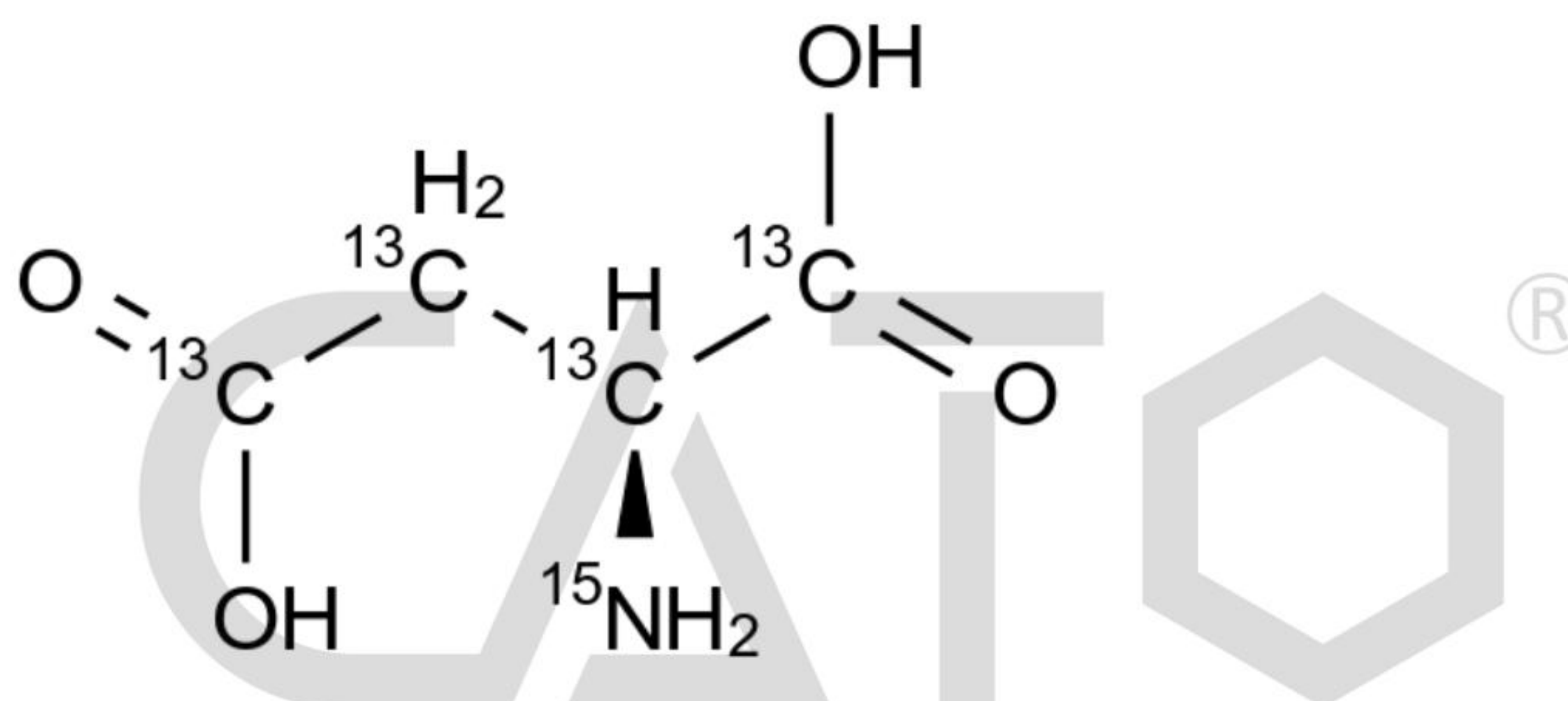
## Reference Material & Standard

|                    |                                                       |                     |                                           |
|--------------------|-------------------------------------------------------|---------------------|-------------------------------------------|
| Product Name:      | L-Aspartic acid-13C4,15N                              | Catalogue Number:   | C1912657                                  |
| Synonyms:          | N/A                                                   | Lot Number:         | 0529-RH-0033                              |
| CAS Number:        | 202468-27-7                                           | Expiry Date:        | Apr 20, 2029                              |
| Molecular Formula: | [13C] <sub>4</sub> H <sub>7</sub> [15N]O <sub>4</sub> | Storage:            | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 138.07                                                | Shipping Condition: | Shipping at Room Temperature              |

Warning:



Chemical Structure:



| Test Items      | Method            | Results                  |
|-----------------|-------------------|--------------------------|
| Appearance      | Visual inspection | White to Off-White Solid |
| Identification  | HNMR              | Confirmed                |
| Chemical Purity | NMR               | 98.0%                    |
| Isotopic Purity |                   | 99.3%                    |
| Uncertainty     |                   | ±2.0%                    |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Approved by General Manager:

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Date: Jun 02, 2026

Date: Jun 03, 2026

Date: Jun 03, 2026



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Page 1 of 3



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