## **Certificate of Analysis**

## (S)-Malic acid-d<sub>3</sub>

Cat. No.: HY-Y1069S CAS No.: 59652-74-3 Batch No.: 257534

**Chemical Name:** Butanedioic-d3 acid, hydroxy-, (S)-

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_4H_3D_3O_5$ Molecular Weight: 137.11

Storage: Powder -20°C 3 years

> 2 years  $4^{\circ}\text{C}$

In solvent -80°C 6 months

> 1 month -20°C

**Chemical Structure:** 

## ANALYTICAL DATA

Appearance: White to off-white (Solid) <sup>1</sup>H NMR Spectrum: Consistent with structure

Purity (HPLC): 99.64% **Isotopic Enrichment:** 98.3%

Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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