## **Certificate of Analysis**

## (S)-Malic acid

Cat. No.: HY-Y1069 CAS No.: 97-67-6 Batch No.: 61214

**Chemical Name:** Butanedioic acid, 2-hydroxy-, (2S)-

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_4H_6O_5$ Molecular Weight: 134.09

Storage: Powder -20°C 3 years

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

In solvent -80°C 6 months

> -20°C 1 month

**Chemical Structure:** 

## ANALYTICAL DATA

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

Purity (NMR): ≥98.0%

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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