## **Certificate of Analysis**

## Monoethyl fumarate

Cat. No.: HY-W019696 CAS No.: 2459-05-4 Batch No.: 89856

**Chemical Name:** 2-Butenedioic acid (2E)-, 1-ethyl ester

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{6}H_{8}O_{4}$ Molecular Weight: 144.13

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

**Chemical Structure:** 

## **ANALYTICAL DATA**

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

Purity (GC): 99.62%

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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