

## CERTIFICATE OF ANALYSIS

**FERMETECH OÜ** | Suur-jõe 71, 80042 Pärnu, Estonia | Reg. No. 11646366 Tel: +372 545 02075 | Email: info@fermetech.eu | www.fermetech.eu

### L-MALIC ACID (E296)

**CAS No.:** 97-67-6 / **Batch No.:** CS12968 / **Inspection basis:** GB1886.40-2015

**Packing:** 25Kg×216 / **Quantity:** 5.4t / **Manufacturing date:** 09.11.2024 / **Expiry date:** 08.11.2027

Test Item	Specification	Result	Status
<b>Sensory requirements</b>			
Colour	White	White	✓
Shape	Crystal or crystalline powder	Crystalline powder	✓
Odor	Special sour taste	Special sour taste	✓
<b>Chemical analysis</b>			
L-Malic acid (C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> ) Assay	≥99.0%	99.2%	✓
Specific rotation [α] <sub>D</sub> (20°C)	-1.6°~-2.6°	-2.0°	✓
Residue on ignition	≤0.1%	0.03%	✓
State of solution	Pass	Qualified	✓
Sulfate [SO <sub>4</sub> ]	≤0.02%	<0.02%	✓
Chloride [Cl]	≤0.004%	<0.004%	✓
Fumaric acid	≤0.5%	0.05%	✓
Maleic acid	≤0.05%	<0.01%	✓
Heavy metals [as Pb]	≤10.0 mg/kg	<10.0 mg/kg	✓
Arsenic [as As]	≤2.0 mg/kg	<2.0 mg/kg	✓
Lead [Pb]	≤2.0 mg/kg	<2.0 mg/kg	✓

**Conclusion:** QUALIFIED

This product is manufactured according to ISO9001 quality standards and complies with food grade specifications. The Certificate of Analysis is based on the documentation provided by the manufacturer.

**Issue Date:** 08.05.2025

**Document No.:** FERMT-COA-2025-0510

**Quality Control Department Technical Director**

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