



常茂生物化学工程股份有限公司
CHANGMAO BIOCHEMICAL ENGINEERING COMPANY LIMITED

CMBEC

Specification

L- MALIC ACID	
Chemical Name	L-Hydroxy Butanedioic Acid
Chemical Formula	C₄H₆O₅
Molecular Weight	134.09
Complies with (EU) Regulation No 231/2012 E296	
Appearance	White crystalline power or granule
Assay	99.0% Min
Solution State:	Clear
Specific Rotation[α]^{20°C}_D	-1.6° - -2.6°
Arsenic (as As₂O₃)	2.0mg/kg Max
Heavy Metals (as Pb):	10mg/kg Max
Residue on Ignition:	0.1% Max
Chloride [Cl]:	0.004% Max
Sulfate [SO₄²⁻]	0.02% Max
Fumaric Acid:	0.5% Max
Maleic Acid:	0.05% Max
Lead:	2mg/kg Max
Mercury	1.0mg/kg Max
Shelf life:	3 years
Storage:	Kept airtightly in a light-proof,dry and cool place
Application:	Used in soft drink, beverage and wine.

For and on behalf of
CHANGMAO BIOCHEMICAL ENGINEERING COMPANY LIMITED

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Authorized signature (S)

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