

Messrs



FUSO CHEMICAL CO.,LTD.

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CERTIFICATE OF ANALYSIS

Feb.08,2017

Order No. :
INVOICE No. :
Commodity : DL-MALIC ACID F.C.C.Grade
Complies with : FCCVI
Lot No. : 16180

Particle Size	
<input type="checkbox"/>	Granular
<input checked="" type="checkbox"/>	Fine Granular
<input type="checkbox"/>	Specially Fine Granular
<input type="checkbox"/>	Powder
<input type="checkbox"/>	80MP

Description : White or nearly white,crystalline powder or granule having a strongly acidic taste.It melts at about 130 degree C.

Molecular weight : 134.09


Total quantity : 1 Kg

Delivery date:

Destination :

TEST ITEM	SPECIFICATION	RESULT
Identification	Pass test	Pass
Assay	99.0~100.5%	100.0%
Residue on Ignition	Max.0.05%	0.00%
Water-Insoluble Matter	Max.0.1%	≤0.1%
Heavy Metals(as Pb)	Max.5mg/kg	≤5mg/kg
Specific Rotation	$[\alpha]_{25/D} -0.10 \sim +0.10^\circ$	0.00 °
Fumaric Acid	Max.1.0%	0.7%
Maleic Acid	Max.0.05%	0.01%
Arsenic(as As ₂ O ₃)	Max.2mg/kg	≤2mg/kg
Lead	Max.2mg/kg	≤2mg/kg
Copper	Max.50mg/kg	≤50mg/kg
Zinc	Max.25mg/kg	≤25mg/kg
Mercury	Max.1mg/kg	≤1mg/kg
Sulphated Ash	Max.0.1%	≤0.1%
Moisture	Max.0.3%	0.1%
Melting Point	127-132°C	130 °C
Manufacturing Date		Oct.16,2016
Expiry Date		Oct.15,2021
Quantity	0.2 Kg ×	5 Bags

We hereby certify that the above test results are true and correct.

Inspected by : 
H. Minato, Manager, Quality Assurance Dept.