



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Road, Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Certificate of Analysis

Product	DL-Malic acid		
CAS No.	6915-15-7	Batch Number	TNJ20150116007
Packing	25kg pp woven bag	N.W.	25.00 kg
G.W.	25.20kg	MFG Date	Jan. 16, 2015
Expiry Date	Jan. 15, 2017	Analysis Date	Jan. 16, 2015
Items	Specification	Results	
Appearance	White crystalline powder	Conforms	
Assay	99.50%-100.50%	99.60%	
Melting point	127.00°C ~ 132.00°C	129.30°C	
Fumaric acid content	1.00% Max.	0.65%	
Maleic acid content	0.05% Max.	0.03%	
Specific rotation	-0.10 ~ +0.10	0	
Heavy metals	10.00mg/kg Max.	< 10.00mg/kg	
As	2.00% Max.	< 2.00mg/kg	
Chloride	100.00mg/kg Max.	< 100.00mg/kg	
Ash	0.10% Max.	0.03%	
Water insoluble	0.10% Max.	0.02%	
Checker	Xu Dong	Rechecker	Lu Xiaoping
Approval	Du Yi		
Conclusion	The Quality of the above said is in conformity with Food Grade.		
COA Issuer	Quality Control Team-Technology Department of Hefei TNJ Chemical Industry Co.,Ltd.		
 			