

## CERTIFICATE OF ANALYSIS

# Specimen Copy

PRODUCT: DL MALIC ACID

BATCH NO: 9086 FG

DATE OF MANUFACTURE: 09-Jan-13

REACH REGISTRATION NUMBER: 01-2119552463-40-0000

S.NO	DESCRIPTION	UNITS	TEST METHOD	SPECIFICATION	TEST RESULTS
1	APPEARANCE	-	--	White Crystalline Fine Granular	<b>White Crystalline Fine Granular</b>
2	ASSAY (as DL - MALIC ACID) ON DRY BASIS	WT %	FCC VII	99.5 Min	<b>99.84</b>
3	LOSS ON DRYING AT 105°C	WT %	IS 14124	0.3Max	<b>0.16</b>
4	MALEIC ACID	WT%	FCC VII	0.05 Max	<b>0.03</b>
5	FUMARIC ACID	WT%	FCC VII	1.0 Max	<b>0.56</b>
6	WATER INSOLUBLE MATTER	WT%	FCC VII	0.10 Max	<b>0.01</b>
7	RESIDUE ON IGNITION	WT%	FCC VII	0.05 Max	<b>0.01</b>
8	COLOUR 10% SOLUTION	APHA	TCL: LAB: MLAC: 07	10 Max	<b>7.5</b>
9	ARSENIC	PPM	IS 14124	1 Max	<b>Less than 1</b>
10	LEAD	PPM	IS 14124	2 Max	<b>Less than 2</b>
11	HEAVY METALS (as Pb)	ppm	IS 14124	5 Max	<b>Less than 5</b>
12	(OPTICAL) SPECIFIC ROTATION	-	FCC VII	- 0.10° to + 0.10°	<b>+0.02°</b>

EXPIRY DATE: BEST BEFORE TWO YEARS FROM THE DATE OF MANUFACTURE

*R. Vamsi*

CHEMIST  
QUALITY ASSURANCE LAB

*R. Suresh*

MANAGER  
QUALITY ASSURANCE

FORM NO: L/10/14

2012/2237

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