B9384

Thirumalai Chemicals Ltd.

(AN ISO 9001, ISO 14001, HACCP, FSSC 22000 & ISO 50001 CERTIFIED COMPANY)
CIN : L24100MH1972PLC016149

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CERTIFICATE OF ANALYSIS

PRODUCT : DL MALIC ACID - E 296

BATCH NO : **8280 FG**

PRODUCTION DATE : 17 July 2016 **BEST BEFORE : 16 July 2018**

REACH REGISTRATION NUMBER: 01-2119552463-40-0000

FSSAI LICENSE NUMBER: 10012042000166

S.NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULTS	TEST METHOD
1	APPEARANCE	-	White Crystalline Fine Granular	**White Crystalline Fine Granular**	--
2	ASSAY (as DL - MALIC ACID) ON DRY BASIS	WT %	99.5 Min	**99.65**	FCC 9
3	LOSS ON DRYING AT 105°C	WT %	0.3 Max	**0.13**	IS 14124
4	MALEIC ACID	WT%	0.05 Max	**0.03**	FCC 9
5	FUMARIC ACID	WT%	1.0 Max	**0.78**	FCC 9
6	WATER INSOLUBLE MATTER	WT%	0.10 Max	**0.01**	FCC 9
7	RESIDUE ON IGNITION	WT%	0.05 Max	**0.01**	FCC 9
8	COLOUR 10% SOLUTION	APHA	10 Max	**5**	TCL: LAB: MLAC: 07
9	ARSENIC	PPM	1 Max	**Less than 1**	IS 14124
10	LEAD	PPM	2 Max	**Less than 2**	IS 14124
11	HEAVY METALS (as Pb)	PPM	5 Max	**Less than 3**	IS 14124
12	SPECIFIC ROTATION	-	- 0.10° to + 0.10°	**+0.02°**	FCC 9

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

V. Thorani
CHEMIST
QUALITY ASSURANCE LAB

Dy.MANAGER
QUALITY ASSURANCE

FORM NO: L/10/14 Apr' 2015

2016/0234