

CERTIFICATE OF ANALYSIS

PRODUCT DL MALIC ACID REACH REGISTRATION NUMBER : 01-2119552463-40-0000
BATCH NO 9886FG FSSAI License No : 10012042000166
DATE OF MANUFACTURE 01-Jan-2016

SL NO	DESCRIPTION	UNITS	TEST METHOD	SPECIFICATION	TEST RESULTS
1	APPEARANCE	-	-	WHITE CRYSTALLINE FINE GRANULAR	WHITE CRYSTALLINE FINE GRANULAR
2	ASSAY(as DL - MALIC ACID) ON DRY BASIS	WT%	FCC 9	99.5 Min	99.66
3	MALEIC ACID	WT%	FCC 9	0.05 Max	0.048
4	FUMARIC ACID	WT%	FCC 9	1.0 Max	0.74
5	RESIDUE ON IGNITION	WT%	FCC 9	0.05 Max	0.01
6	WATER INSOLUBLE MATTER	WT%	FCC 9	0.10 Max	0.01
7	(OPTICAL) SPECIFIC ROTATION	Degree Arc	FCC 9	-0.10 to +0.10	+0.02
8	LEAD	PPM	IS 14124	2 Max	Less than 2

Expiry date : Best before 24 months from the date of manufacture.

THARANI V
CHEMIST
QUALITY ASSURANCE LAB

BAMA B K
DEPUTY MANAGER
QUALITY ASSURANCE

Form No. L/10/14. Apr 2015

This is a computer generated C.O.A.Hence signature is not necessary

Printed by & date - ANBUKKARASAN L 08-Jan-2016 04:25

CERTIFICATE OF ANALYSIS

PRODUCT DL MALIC ACID REACH REGISTRATION NUMBER : 01-2119552463-40-0000
BATCH NO 9486FG FSSAI License No : 10012042000166
DATE OF MANUFACTURE 05-Jan-2016

SL NO	DESCRIPTION	UNITS	TEST METHOD	SPECIFICATION	TEST RESULTS
1	APPEARANCE	-	-	WHITE CRYSTALLINE FINE GRANULAR	WHITE CRYSTALLINE FINE GRANULAR
2	ASSAY(as DL - MALIC ACID) ON DRY BASIS	WT%	FCC 9	99.5 Min	99.68
3	MALEIC ACID	WT%	FCC 9	0.05 Max	0.034
4	FUMARIC ACID	WT%	FCC 9	1.0 Max	0.60
5	RESIDUE ON IGNITION	WT%	FCC 9	0.05 Max	0.01
6	WATER INSOLUBLE MATTER	WT%	FCC 9	0.10 Max	0.01
7	(OPTICAL) SPECIFIC ROTATION	Degree Arc	FCC 9	-0.10 to +0.10	+0.02
8	LEAD	PPM	IS 14124	2 Max	Less than 2

Expiry date : Best before 24 months from the date of manufacture.

THARANI V
CHEMIST
QUALITY ASSURANCE LAB

BAMA B K
DEPUTY MANAGER
QUALITY ASSURANCE

Form No. L/10/14. Apr 2015

This is a computer generated C.O.A.Hence signature is not necessary

Printed by & date - ANBUKKARASAN L 08-Jan-2016 04:26

CERTIFICATE OF ANALYSIS

PRODUCT DL MALIC ACID REACH REGISTRATION NUMBER : 01-2119552463-40-0000
BATCH NO 7187FG FSSAI License No : 10012042000166
DATE OF MANUFACTURE 28-Dec-2015

SL NO	DESCRIPTION	UNITS	TEST METHOD	SPECIFICATION	TEST RESULTS
1	APPEARANCE	-	-	WHITE CRYSTALLINE FINE GRANULAR	WHITE CRYSTALLINE FINE GRANULAR
2	ASSAY(as DL - MALIC ACID) ON DRY BASIS	WT%	FCC 9	99.5 Min	99.79
3	MALEIC ACID	WT%	FCC 9	0.05 Max	0.044
4	FUMARIC ACID	WT%	FCC 9	1.0 Max	0.75
5	RESIDUE ON IGNITION	WT%	FCC 9	0.05 Max	0.01
6	WATER INSOLUBLE MATTER	WT%	FCC 9	0.10 Max	0.01
7	(OPTICAL) SPECIFIC ROTATION	Degree Arc	FCC 9	-0.10 to +0.10	+0.02
8	LEAD	PPM	IS 14124	2 Max	Less than 2

Expiry date : Best before 24 months from the date of manufacture.

THARANI V
CHEMIST
QUALITY ASSURANCE LAB

BAMA B K
DEPUTY MANAGER
QUALITY ASSURANCE

Form No. L/10/14. Apr 2015

This is a computer generated C.O.A.Hence signature is not necessary

Printed by & date - ANBUKKARASAN L 08-Jan-2016 04:26