

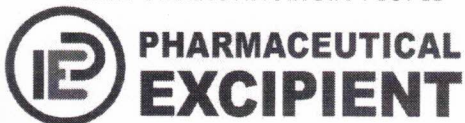
**M.L.A. Industries Pvt. Ltd. (Pharma Division)**

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(Drug License No. UP78250000012)

(Food Safety & Drug Administration – Govt. of Uttar Pradesh)

CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : sample
PRODUCT : Sorbitan Monostearate	GRADE : Conforming to USP
BATCH NO. : SMS – 17F012023	DATE : 21/02/2023
Date of MFG : 17/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
DEFINITION	-	Sorbitan Monostearate is a partial ester of Stearic Acid with Sorbitol and its mono- and dianhydrides. It yields, upon saponification, NLT 68.0% and NMT 76.0% of fatty acids, and NLT 27.0% and NMT 34.0% of polyols (w/w).	Complies With USP
Identification - A	-	Acid Value - 200 - 215 (The residue of stearic acid obtained in the Assay for fatty acids has an acid value between 200 and 215, about 1 g of the residue) Iodine Value : NMT 4.0	Acid Value - 208 Iodine Value - 2.4
Identification - B	-	The R F values of the spots from the Sample solution correspond to those of the spots from the Standard solution.	Complies With USP
Assay - Fatty Acid	%	68.0 - 76.0	71.28
polyols	%	27.0 - 34.0	32.24
RESIDUE ON IGNITION	%	NMT 0.5	0.21
Heavy metals	%	Not more than 0.001	<0.001
WATER DETERMINATION	%	NMT 1.5	0.75
Hydroxyl Value	-	235-260	247
Saponification Value	-	147-157	152

Tested by Chemist	Checked by QA	Approved by Lab Head
 21/02/2023	 21/02/2023	 21/02/2023
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjval Tiwari

