



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 : SODIUM ALUMINIUM SILICATE	GRADE : EP
BATCH NO. : SAS-16E022023	DATE : 01/03/2023
Date of MFG : 16/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Appearance	-	Odourless, fine, white amorphous free flowing powder	Complies
Test for aluminum, sodium and silicon		Prepare the test solution as shown under method of assay. Analyze aluminium and silica in the test solution by ICP-AES technique (Vol. 4). Set instrument parameters as specified by the instrument manufacturer, use analytical lines for Al (396.15 nm), Na (589.52 nm) and Si (251.611 nm).	Complies
Impurities soluble in 0.5 M hydrochloric acid		Extract 20 g of finely ground sample under reflux conditions with 100 ml of 0.5 M hydrochloric acid (spectroscopic grade) for 30 min. Let solution cool, and then filter through a 0.1 µm membrane filter. Wash the filter twice with hot 0.5 M hydrochloric acid. Combine the filtrate and wash solution in a 200 ml volumetric flask and make up to volume with 0.5 M hydrochloric acid. Determine arsenic using an AAS (Hydride generation) technique and lead using an AAS (Electrothermal atomization) technique.	Complies
pH		9.5 – 11.5	9.84
Loss on drying	%	Not more than 8.0% (105o, 2h)	4.26
Loss on ignition	%	Not less than 5.0% and not more than 11.0% on the dried basis (1000o, constant weight)	9.58
Microbial Contamination	cfu/gm	TAMC-NMT 100 cfu/gm, TYMC-NMT -100 cfu/gm, Salmonella & Escherichia Coli-Absent	Complies with EP
Heavy Metals –(Lead)	ppm Max	5	< 5.0
Heavy Metals –(Arsenic)	ppm Max	3	<3.0
Aluminum (Dried Substance)	%	2.7-79	Complies
Sodium (Dried Substance)	%	3.7-6.3	Complies
Assay	%	Not less than 66% and not more than 88% as silicon dioxide (SiO ₂), not less than 5% and not more than 15% as aluminium oxide (Al ₂ O ₃) and not less than 5% and not more than 8.5% as sodium oxide (Na ₂ O); on the ignited basis.	Complies

Tested by Chemist	Checked by QA	Approved by Lab Head
<i>Gaurav Sen</i> 01/03/23	<i>P. Kumar</i> 01/03/2023	<i>Ujjval Tiwari</i> 01/03/2023
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjval Tiwari

