



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 : HYDRATED CALCIUM SILICATE	GRADE : USP
BATCH NO. : HCS -15A022023	DATE : 28/02/2023
Date of MFG. : 15/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Calcium Silicate crystalline or amorphous is a compound of calcium oxide and silicon dioxide. It contains not less than 4.0 percent of calcium oxide and not less than 35.0 percent of silicon dioxide.	Complies to USP
Identification	-	A: Mix 0.5 g with 10 mL of 3 N hydrochloric acid, filter, and neutralize the filtrate to litmus paper with 6 N ammonium hydroxide: the neutralized filtrate so obtained responds to the tests for calcium B: Prepare a bead by fusing a few crystals of sodium ammonium phosphate on a platinum loop in the flame of a gas burner. Place the hot, transparent bead in contact with the specimen of Calcium Silicate, and again fuse. Silica floats about in the bead, producing, upon cooling, an opaque bead having a web-like structure.	Passes Passes
Silicon Dioxide	%	NLT 35.0% & 90-110% of label amount	83.4
Calcium Oxide	%	NLT 4.0% & 90-110% of label amount	4.6
Loss on ignition	%	NMT 20.0 % . dry at 105° for 2 hours .and ignite at 900° to constant weight.	10.86
Heavy metals (As Pb)	ppm	NMT 10 ppm	<10.0
fluoride	ppm	NMT 50 ppm	Passes
PH	-	8.4 – 11.2	9.2
Ratio of SiO2 and CaO		0.5 – 20.0	18.13
Sum of CaO, SiO2, and Loss on Ignition	%	NLT 90	98.86

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

