



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

111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292

Website: www.mlagroup.com, E-mail: sales@mlagroup.com

(Drug License No. UP78250000012)

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

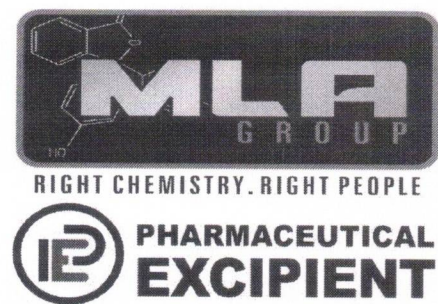
CERTIFICATE OF ANALYSIS

CUSTOMER : M/S	INVOICE : Sample
PRODUCT : STARCH	GRADE : IP
BATCH NO. : ST-05D022023	DATE : 02/03/2023
Date of MFG : 05/02/2023	Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATION	TEST VALUE
Color / Appearance	-	A very Fine , white or slightly yellowish powder , that creaks when pressed between the fingers.	Complies with IP
Solubility	-	Practically insoluble in cold water and in ethanol (96 per cent).	Complies with IP
Identification	-	Test A – starch granules show a distinct black cross intersecting at the hilum. Test B- Suspend 1 g in 50 mL of water R, boil for 1 min and cool. A thin, cloudy mucilage is formed, Test C- To 1 mL of the mucilage obtained in identification test B add 0.05 mL of iodine solution R1. An orange-red to dark blue colour is produced, which disappears on heating.	A - Passes B - Passes C – Passes
Acidity	-	NMT 2.0 ml is Required To change the colour of the sol.	0.4 ml is Required To change the colour of the sol.
Iron	-	Maximum 40 ppm	< 40
Fluorescence	-	No Fluorescence should be visible under screened ultra-violet light.	Complies with IP
Oxidizing substances	-	Passes	Complies with IP
Microbial contamination	-	Absence of Escherichia coli Absence of Salmonella And Shigella	Absent
Sulfated ash	-	Maximum 0.8 per cent (2 g)	0.19
Loss on drying	-	Maximum 15.0 per cent, determined on 0.2 g by drying in an oven at 105 °C .	9.94

Tested by Chemist	Checked by QA	Approved by Lab Head
<i>Gaurav</i> 02/03/23	<i>P. Kumar</i> 02/03/23	<i>Ujjwal</i> 02/03/2023
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjval Tiwari





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Regd. Office : 111/230,HARSH NAGAR, KANPUR,Tel. : (0512)-2555292
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CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Sample
PRODUCT : Corn Starch	GRADE : USP - 43
BATCH NO. : CST-20E012023	DATE : 28/02/2023
Date of MFG. : 20/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Corn Starch consists of the starch granules separated from the mature grain of corn [Zea mays Linné (Fam. Gramineae)].	Complies with USP
Identification – A	-	Between crossed nicol prisms, the starch granules show a distinct black cross intersecting at the hilum.	Passes
Identification –B		Suspend 1 g of it in 50 mL of water, boil for 1 minute, and cool: a thin, cloudy mucilage is formed.	Passes
Identification – C		an orange-red to dark blue color is produced, which disappears on heating.	Passes
Microbial limits	-	TAMC – NMT 1000 cfu per g, TYMC – NMT 100 cfu per g, Escherichia coli - Absent Where it is intended for use in preparing Absorbable Dusting Powder, it also meets the requirements of the tests for absence of Staphylococcus aureus and Pseudomonas aeruginosa.	Complies with USP
PH	-	4.0 - 7.0.	5.2
Loss on drying	%	NMT 15.0 % @ 130 °c For 90 minutes	Passes
Residue on ignition	%	not more than 0.6%,	0.30
Iron	-	NMT 10.0 PPM	<10.0
oxidizing substances	-	20 µg per g, calculated as H2O2	Passes
Limit of sulfur dioxide	-	not more than 50 µg per g	< 50
Residual solvents	-	meets the requirements.	Passes

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CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE :
PRODUCT : Corn Starch	GRADE : JP
BATCH NO. : CST-19E022023	DATE : 01/03/2023
Date of MFG: 19/02/2023	Date of EXP:5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Corn Starch occurs as white to pale yellowish white masses or powder.	Complies With JP
Solubility	-	It is practically insoluble in water and in ethanol (99.5).	Complies With JP
Identification	-	Test A – the starch granules show a distinct black cross intersecting at the hilum. Test B- To 1 g of Corn Starch add 50 mL of water, boil for 1 minute, and allow to cool: a subtle white-turbid, pasty liquid is formed. Test C- an orange-red to deep blue colour is formed and the colour disappears by heating	A - Complies With JP B - Complies With JP C - Complies With JP
PH	-	4.0 - 7.0.	5.2
Iron	ppm	Not More than 10.0 ppm	< 10.0
oxidizing substances	ppm	Not more than 20 ppm, calculated as hydrogen peroxide	< 20
sulfur dioxide	ppm	Not More than 10.0 ppm	3.24
Foreign matter	-	does not contain starch granules of any other origin	Complies With JP
Loss on drying	%	NMT 15.0 % @ 130 °c For 90 minutes	Passes
Residue on ignition	%	not more than 0.6%,	0.19

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



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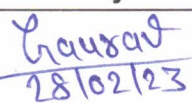
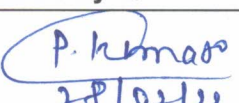
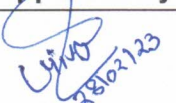
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CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Sample
PRODUCT : Maize Starch	GRADE : Pharma(BP)
BATCH NO. : MS-12A012023	DATE : 28/02/2023
DATE MFG. : 12/01/2023	Date of EXP : 5 years from MFG

Description : Matt, white to slightly yellowish, very fine powder that creaks when pressed between the fingers.

Test and Method	Specification	Result
Identification A(BP)	It appears as either angular polyhedral granules of irregular sizes with diameters ranging from about 2 μ m to about 23 μ m or as rounded or spheroidal granules of irregular sizes with diameters ranging from about 25 μ m to about 35 μ m	Complies with BP
Identification A(BP)	The central hilum consists of a distinct cavity or 2- to 5-rayed cleft and there are no concentric striations. Between orthogonally orientated polarising plates or prisms, the starch granules show a distinct black cross intersecting at the hilum.	Complies with BP
Identification B(BP)	Suspend 1 g in 50 mL of water R, boil for 1 min and cool. A thin, cloudy mucilage is formed	A thin, cloudy mucilage is formed
Identification C(BP)	To 1 mL of the mucilage obtained in identification test B add 0.05 mL of iodine solution R1. An orange-red to dark blue colour is produced, which disappears on heating.	dark blue colour is produced, which disappears on heating.
pH (BP)	4.0 to 7.0.	4.9
Foreign matter(BP)	Examined under a microscope using a 50 per cent V/V solution of glycerol R, not more than traces of matter other than starch granules are present. No starch grains of any other origin are present.	Complies with BP
Oxidising substances(BP)	Maximum 20 ppm, calculated as H ₂ O ₂ .	3.1
Sulfur dioxide (BP)	Maximum 50 ppm.	3.12
Iron(BP)	Maximum 10 ppm.	< 10
Loss on drying (BP)	Maximum 15.0 per cent, determined on 1.000 g by drying in an oven at 130 °C for 90 min.	9.85
Sulfated ash(BP)	Maximum 0.6 per cent, determined on 1.0 g.	0.19
Microbial contamination(BP)	TAMC: acceptance criterion 10 ³ CFU/g	120 CFU/g
	TYMC: acceptance criterion 10 ² CFU/g	< 10
	Absence of Escherichia coli	Absent
	Absence of Salmonella	Absent

Tested by Chemist	Checked by QA	Approved by Lab Head
 28/02/23	 28/02/23	 28/02/23
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjval Tiwari

