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IE PHARMACEUTICAL
EXCIPIENT

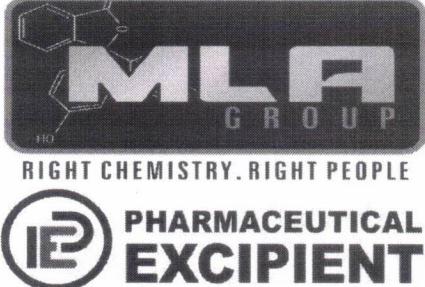
M.L.A. Industries Pvt. Ltd. (Pharma Division)
111/230,HARSH NAGAR, KANPUR,Tel. : (0512)-2555292
Website:www.mlagroup.com, E-mail:sales@mlagroup.com
(Drug License No. UP78250000012)
(Food Safety & Drug Administration - Govt. of Uttar Pradesh)
CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Sample
PRODUCT : KAOLIN (Heavy)	GRADE : IP
BATCH NO. : KN-04C022023	DATE : 23/02/2023
Date of MFG. : 04/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Fine white or Grayish white soft,odorless powder	Complies
Alkalinity & Acidity	-	NMT 0.25ml of 0.01M NaOH soln. required for colour change of soln. to pink	Passes
Absorption Power	-	Test should be pass	Passes
Swelling Power	-	2g sample+2ml water , the mixture does not flow	Passes
Loss on Ignition	%	NMT 15	07.36
Identification	-	Test A Test B	Passes Passes
Substance soluble in mineral acid	%	NMT 1.0.	0.34
Arsenic	ppm	2.0 max	< 2.0 ppm
Sulphates	ppm	750 max	< 750 ppm
Organic impurities	-	Test should be pass	Passes
Heavy Metal as Lead	ppm	NMT 50	< 50 ppm

Tested by Chemist	Checked by QA	Approved by Lab Head
Gaurav Sen 23/02/23	P. Srivastava 23/02/23	Ujjwal Tiwari 23/02/2023
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjwal Tiwari





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CERTIFICATE OF ANALYSIS

CUSTOMER : M/s
PRODUCT : KAOLIN (HEAVY)
BATCH NO : KN-20E022023
Date of MFG : 20/02/2023

INVOICE :
GRADE : BP
DATE : 28/02/2023
Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Appearance	-	Fine white or Grayish white unctuous powder	Fine white or Grayish white unctuous powder
Solubility	--	Practically insoluble in water , and in organic solvents.	Passes
Identification	-	Test A -Passes Test B - Sediment limit is NMT 5 ml , Test C-Passes	Passes the test Passes the test Passes the test
Acidity or Alkalinity	-	NMT 0.25 ml of 0.01M NaOH soln. required for colour change of indicator phenolphthalein.	Passes the test
Organic Impurities	-	After calcinations the residue is only slightly more colored than original substance.	Passes the test
Absorption power	-	Test should passes	Passed
Swelling power	-	Test should passes	Passed
Substance Soluble in dil. hcl	mg	NMT 10 mg	7
Chlorides	ppm max	250	< 250 ppm
Sulfates	%	0.1	Passes the test
Calcium	ppm max	250	< 250 ppm
Extractable Heavy Metal	ppm max	50	< 50 ppm
Microbial Contamination	CFU/g	TAMC -1000 cfu/gm, TYMC-100 cfu/gm	Passes the test

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





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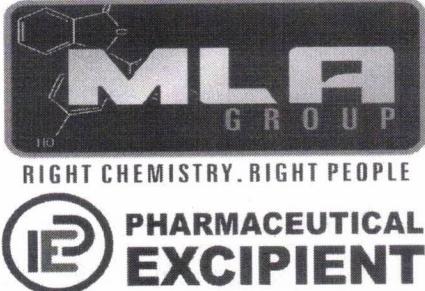
CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Nil
PRODUCT : KAOLIN (HEAVY)	GRADE : USP
BATCH NO. : KNH-07A012023	DATE : 28/02/2023
Date of MFG. : 07/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Colour & Appearance	-	Fine white or Grayish white soft, odorless powder	Complies with USP
Identification	-	A gray residue remains on the filter, and the filtrate meets the requirements of the test.	Complies with USP
Loss on ignition	%	NMT 15.0 % . @550-600*c temp.	9.8
Lead	ppm	NMT 10.0 ppm	Complies with USP
Iron	-	Test should passes	Passes the test
Acid soluble substance	%	NMT 10 mg of residue	Complies with USP
Carbonate test	-	No effervescence occurs	Passes the test
Microbial Contamination	-	Meets the requirement for the absence of E.Coli	E.Coli Absent

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





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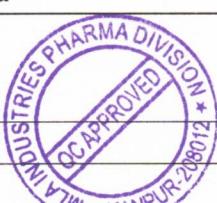
CERTIFICATE OF ANALYSIS

CUSTOMER : M/S
PRODUCT : KAOLIN , HEAVY
BATCH NO. : KN-28E012023
Date of MFG : 28/01/2023

INVOICE : Sample
GRADE : EP
DATE : 01/03/2023
Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Appearance: fine, white or greyish-white, unctuous powder	Complies to EP
Solubility	-	practically insoluble in water and in organic solvents	Complies to EP
Identification	-	A. - To 0.5 g in a metal crucible add 1 g of potassium nitrate R and 3 g of sodium carbonate R and heat until the mixture melts To the filtrate add 3 mL of ammonium chloride solution R. A gelatinous white precipitate is formed. B. - Add 2.0 g in 20 portions to 100 mL of a 10 g/L solution of sodium laurilsulfate R in a 100 mL graduated cylinder about 30 mm in diameter. The apparent volume of the sediment is not greater than 5 mL. C. - 0.25 g gives the reaction of silicates.	Passes Passes Passes
Acidity or alkalinity	-	0.01 M sodium hydroxide is required to change the colour of the indicator to pink.	Passes
Organic impurities	-	The residue is only slightly more coloured than the original substance.	Passes
Adsorption power	-	passes	Complies to EP
Swelling power.	-	Triturate 2 g with 2 mL of water R. The mixture does not flow.	Passes
Substances soluble in dilute hydrochloric acid	%	maximum 1 %	Passes
Chloride	ppm	NMT 250	< 250
Sulfates	%	NMT 0.1	<0.1
Calcium	ppm	NMT 250	<250
Extractable heavy metals	ppm	Max. 50 ppm	<50.0
Microbial contamination	CFU/g	TAMC: acceptance criterion 10^3 CFU/g TYMC: acceptance criterion 10^2 CFU/g	Passes

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





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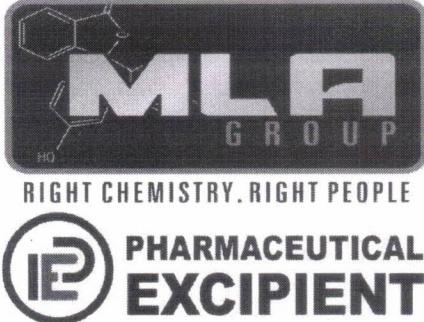
CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Nil
PRODUCT : KAOLIN (LIGHT)	GRADE : IP
BATCH NO. : KN-09E012023	DATE : 23/02/2023
Date of MFG. : 09/01/2023	Date of EXP : 5 years from MFG

S.No.	PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
1.	Description	-	Light white powder free from grit particles, odourless free flowing powder	Complies
2.	Fine Particles	%	NLT 70 %	78 %
3.	Coarse Particles	-	NMT 25 mg residue per 5 g sample	17 mg
4.	Identification	-	Test A Test B	Passes Passes
5.	Soluble Matter	%	NMT 10mg residue per 2 g sample	3 mg
6.	Arsenic	ppm	2.0 max.	< 2.0
7.	Chloride	ppm	330 max.	< 330
8.	Loss on Drying	%	1.5 max.	0.36
9.	Heavy metals	ppm	20 max	< 20
10.	Loss on Ignition (600°C)	%	15.0 max.	5.46

Tested by Chemist	Checked by QA	Approved by Lab Head
 Gaurav Sen 23/02/23	 Mr. Prince Srivastava 28/02/23	 Mr. Ujjval Tiwari 23/02/2023
Mr. Gaurav Sen	Mr. Prince Srivastava	Mr. Ujjval Tiwari





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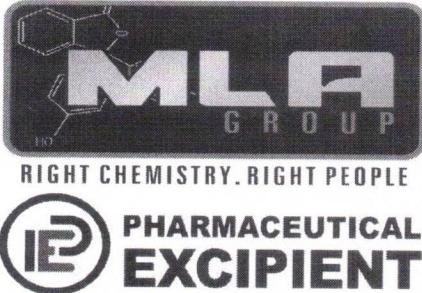
CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Sample
PRODUCT : KAOLIN (LIGHT)	GRADE : BP-2022
BATCH NO : KN-15A022023	DATE : 28/02/2023
Date of MFG : 15/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Light, white powder free from gritty particles, odorless unctuous powder	Light, white powder free from gritty particles, odorless unctuous powder
Solubility	--	Practically insoluble in water and in mineral acids.	Complies
Coarse Particle	mg	NMT 25 mg residue per 5 gm of sample.	15
Identification	-	Test A -Passes Test B - Passes, TestC- Triturate 2 g with 2 mL of water. The resulting mixture flows.	A - Complies with BP B - Complies with BP C - Complies with BP
Coarse Particles	mg	NMT 25 mg residue per 5 g sample	15
Fine Particles	%	The wt of residue from the 2 nd portion is NLT 70 % of the wt of residue from the 1 st portion	79
Arsenic	ppm max	2.0	<2.0
HEAVY METAL (As Pb)	ppm max.	20.0	< 20.0
Chloride	ppm max	330	<330
LOD @ 105°C	% max	1.5	0.58
Loss on ignition (600°C)	%	15 % Max	8.14
soluble matter	mgm	NMT 10 mgm residue per 2 gm sample	6

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





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CERTIFICATE OF ANALYSIS

CUSTOMER :	INVOICE :
PRODUCT : KAOLIN	GRADE : JP
BATCH NO. : KN- 21E022023	DATE : 01/03/2023
Date of MFG. : 21/02/2023	Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Kaolin occurs as white or nearly white, fragmentary masses or powder. It has a slightly clay-like odor. When moistened with water, it darkens and becomes plastic.	Complies to JP
solubility	-	It is practically insoluble in water, in ethanol (99.5) and in diethyl ether.	Complies to JP
Identification	-	Test A – Heat 1 g of Kaolin with 10 mL of water and 5 mL of sulfuric acid in a porcelain dish, and evaporate the mixture nearly to dryness. Cool, add 20 mL of water, boil for 2 to 3 minutes, and filter: the color of the residue is gray. Test B - The filtrate obtained in (1) responds to the Qualitative Tests (1), (2) and (4) for aluminum salt.	Passes Passes
Acid or alkali	-	: the pH of the filtrate is between 4.0 and 7.5	6.22
Acid-soluble substances	g	residue is not more than 0.010 g	Passes
Carbonate	-	no effervescence occurs	Passes
Heavy metals As Pb	ppm	NMT 50 ppm	Passes
iron	ppm	NMT 500 ppm	Passes
Arsenic	ppm	NMT 2 ppm	Passes
Foreign matter	-	no sandy residue remains.	Passes
Loss on ignition	%	NMT 15.0% (1 g, 600°C, 5 hours).	8.45
Plasticity	-	The resultant mass has no remarkable fluidity.	Passes

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

