



RIGHT CHEMISTRY. RIGHT PEOPLE



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

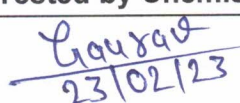
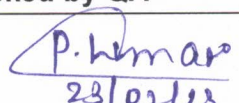
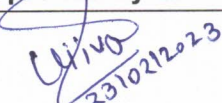
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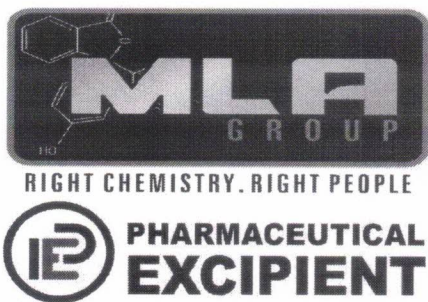
CERTIFICATE OF ANALYSIS

CUSTOMER : M/S	INVOICE : Sample
PRODUCT : Talc	GRADE : IP
BATCH NO. : TC-17E012023	DATE : 23/02/2023
Date of MFG. : 17/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	A white almost white powder, free from grittiness, readily adheres to the skin unctuous on touch odorless powder	Complies
Identification	-	By infrared absorption spectrum of the substance being examined in potassium bromide dispersion should show absorption, bands at 3677cm, 1018cm and at 669 cc	Passes
		A white crystalline precipitate is formed with Di Sodium Hydrogen Phosphate	Passes
		The residue obtained in identification test B gives reaction of silicates	Passes
Acidity or Alkalinity	-	NMT 0.3 ml of 0.1M HCl required to make it acidic	Passes
Water Soluble Substance	mg	NMT 10 mg	4
Loss on Drying (180°C/1 hr)	%	NMT 1.0	0.18
Chloride	ppm	NMT 250	< 250
Iron	ppm	NMT 10	< 10
Acid soluble substance	%	NMT 2.0	1.24
Carbonate Test	-	No effervescence produced with diluted HCl	Passes
Organic Compound	-	Colour of material after LOD NMT slight yellowish or gray	Passes
Total viable microbial count	Cfu/ g	Total Aerobic count For cutaneous administration 100 cfu/gm max, For Oral administration 1000 cfu/gm max.	Passes
Fungi & Yeast		Total Y & M Count-100 cfu/gm max, Salmonella & E.Coli- Absent	Passes

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





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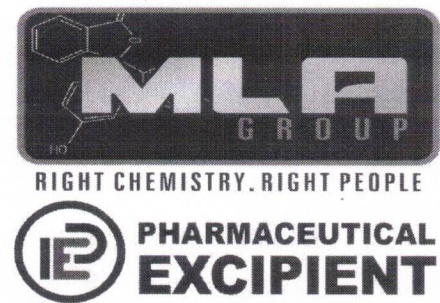
CERTIFICATE OF ANALYSIS

CUSTOMER : M/S	INVOICE : Sample
PRODUCT : Purified Talc	GRADE : BP
BATCH NO : TC-11D022023	DATE : 28/02/2023
Date of MFG : 11/02/2023	Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	Results
Appearance	--	Light, homogeneous, white or almost white powder,	Light, homogeneous, white or almost white powder,
Solubility	--	Practically insoluble in water , in ethanol (96%) and in dilute solutions of acids , and alkali hydroxide	Passes
Identification A	--	By Infrared absorption spectrum of the substance being examined in potassium bromide dispersion should show absorption, bands at $3677 \pm 2 \text{ cm}^{-1}$, at $1018 \pm 2 \text{ cm}^{-1}$ and at $669 \pm 2 \text{ cm}^{-1}$	Passes
Identification B	--	A white, crystalline precipitated should be formed.	Passes
Identification C	--	The residue obtained in identification test B should give reaction of silicates.	Passes
Acidity or Alkanity	--	Max 0.3 ml of 0.01 M sodium hydroxide is required to change the colour of the indicator to pink.	0.15 ml of 0.01 M sodium hydroxide is required to change the colour of the indicator to pink.
Water-Soluble Substances	% max	0.2	0.02
Aluminium	% Max	2	0.73
Calcium	% Max	0.9	0.44
Iron	% max	0.25	<0.25
Lead	ppm max	10	3.3
Magnesium	%	17.0 - 19.5	18.24
Loss on ignition @1050°C-1100°C	% max	7	3.06
Microbial Contamination	cfu/gm max	If intended for cutaneous administration : TAMC 10^2 cfu/g max, If intended for oral administration : TAMC 10^3 cfu/g max, TYMC 10^2 cfu/gm max,	Complies With BP

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





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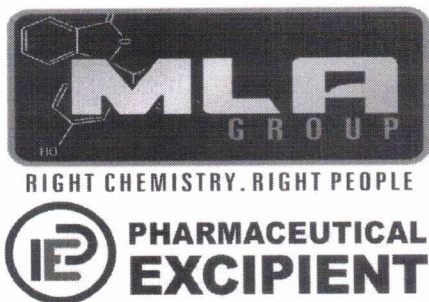
CERTIFICATE OF ANALYSIS

CUSTOMER : M/S	INVOICE : Sample
PRODUCT : Talc	GRADE : USP - 43
BATCH NO. :TC-16E012023	DATE : 28/02/2023
Date of MFG. : 16/01/2023	Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
DEFINITION	--	Talc is a powdered, selected, natural, hydrated magnesium silicate. Pure talc has the formula MgSiO(OH). It may contain variable amounts of associated minerals among which chlorites (hydrated aluminum and magnesium silicates), magnetite (magnesium carbonate), calcite (calcium carbonate), and dolomite (calcium and magnesium carbonate) are predominant.	Complies With USP
Appearance	--	A white almost white powder, free from grittiness, readily adheres to the skin unctuous on touch odorless powder	Complies With USP
Solubility	--	Practically insoluble in water, in ethanol (96%) and in dilute solutions of acids	Complies With USP
Identification	--	A- The IR spectrum of a potassium bromide dispersion of it exhibits maxima at 3677 ± 2 cm, at 1018 ± 2 cm, and at 669 ± 2 cm.	Complies With USP
		B- A white, crystalline precipitate of magnesium ammonium phosphate is formed.	Complies With USP
		C - Within a short time, a white ring is rapidly formed around the drop of water.	Complies With USP
Assay	%	17.0 -19.5	18.22
Impurities (Water soluble substances)	mg	NMT 5	2
Iron	%	NMT 0.25 %	0.02
Lead	ppm	NMT 10.0	4.85
Calcium	%	NMT 0.9 %	0.3
Aluminium	%	NMT 2.0 %	0.85
Asbestos	-	Absent	Complies With USP
Microbial Enumeration Tests	cfu/gm max	For Tropical Administration= TAMC- NMT 100 cfu/gm & TYMC- 50 cfu/gm max For Oral Administration= TAMC-NMT 1000 cfu/gm & TYMC-100 cfu/gm	Complies With USP
ACIDITY AND ALKALINITY	-	NMT 0.4 mL of 0.01 N hydrochloric acid is required to change the color of the bromothymol blue indicator. NMT0.3 mL of 0.01 N sodium hydroxide is required to change the color of the phenolphthalein indicator to pink.	Complies With USP
Loss on Ignition@1075°C± 25	%	NMT 7.0 %	3.45

Tested by Chemist	Checked by QA	Approved by Lab Head
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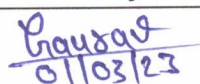
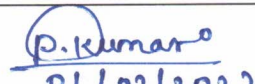
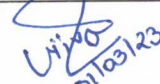
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CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : Sample
PRODUCT : TALC	GRADE : EP
BATCH NO. : TC- 22C022023	DATE : 03/01/2023
Date of MFG. : 22/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Appearance: light, homogeneous, white or almost white powder, greasy to the touch (non abrasive)	Complies to EP
Solubility		practically insoluble in water, in ethanol (96 percent) and in dilute solutions of acids and alkali hydroxides.	Complies to EP
Identification	-	A. Infrared absorption spectrophotometry Absorption bands : at $3677 \pm 2 \text{ cm}^{-1}$, $1018 \pm 2 \text{ cm}^{-1}$ and $669 \pm 2 \text{ cm}^{-1}$.	Passes
		B. To the filtrate add 1 mL of disodium hydrogen phosphate solution R. A white, crystalline precipitate is formed.	Passes
		C. The residue obtained in identification test B gives the reaction of silicates.	Passes
Acidity or alkalinity	-	not more than 0.3 mL of 0.01 M sodium hydroxide is required to change the colour of the indicator to pink.	Passes
Water Soluble substances	%	NMT 0.2	0.07
Aluminium	%	NMT 2.0	<2.0
Calcium	%	NMT 0.9	<0.9
Iron	%	NMT 0.25	0.17
Lead	ppm	NMT 10	4.9
Magnesium	%	17.0- 19.5	18.24
Loss on Ignition	%	NMT 7.0	3.74
Microbial contamination	CFU/g	If intended for cutaneous administration TAMC: acceptance criterion: 10^2 CFU/g If intended for oral administration TAMC: acceptance criterion: 10^3 CFU/g TYMC: acceptance criterion: 10^2 CFU/g	Complies to EP

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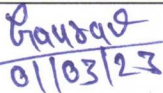
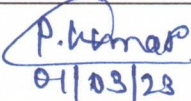
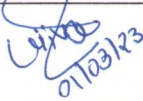
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CERTIFICATE OF ANALYSIS

CUSTOMER :	INVOICE :
PRODUCT : TALC	GRADE : JP
BATCH NO. : TC- 20A022023	DATE : 01/03/2023
Date of MFG. : 20/02/2023	Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Talc occurs as a white to grayish white, fine, crystalline powder. It is odorless and tasteless. It is unctuous, and adheres readily to the skin.	Complies to JP
solubility	-	It is practically insoluble in water, in ethanol (95) and in diethyl ether.	Complies to JP
Identification	-	Test A – precipitate is blue in color. Test B- a white, crystalline precipitate is produced.	Passes Passes
Acid-soluble substances	%	Not more than 2.0 %	1.66
Acid or alkali, and water-soluble substances	mg	Not more than 4.0 mg	2 mg
Water-soluble iron	-	Make 10 mL of the filtrate obtained in (2) weakly acidic with hydrochloric acid, and add drop wise potassium hexacyanoferrate (I I) TS: the liquid does not acquire a blue color.	Passes
Arsenic	ppm	Not more than 4 ppm	Passes
Loss on drying	%	Not more than 5.0% (1 g, 450-550°C, 3 hours).	1.20

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 01/03/23	 01/03/23	 01/03/23
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