



RIGHT CHEMISTRY. RIGHT PEOPLE



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

Regd. Office : 111/230, HARSH NAGAR, KANPUR, Tel. : (0512)-2555292  
Address : D-7B, D-8 & D-16, Panki Industrial Area, Site-1, Kanpur, Uttar Pradesh 208022

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

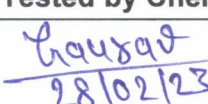
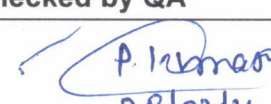
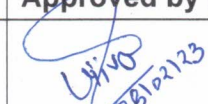
( Drug License No. UP78250000012 )

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

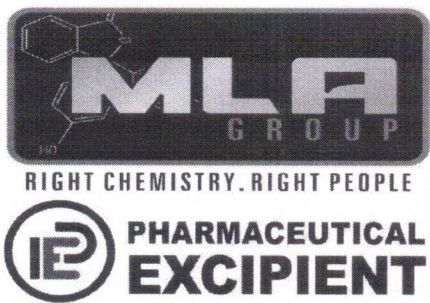
## CERTIFICATE OF ANALYSIS

CUSTOMER : M/S	INVOICE : Sample
PRODUCT : Barium Sulfate	GRADE : BP
BATCH NO : BS-28B012023	DATE : 28/02/2023
Date of MFG : 28/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	Results
Appearance	--	Fine, white or almost white powder, free from gritty particles.	Complies with BP
Solubility	--	Practically insoluble in water and in organic solvents. It is very slightly soluble in acids and in solutions of alkali hydroxides.	Passes
Identification A	--	solution gives the reactions of sulfates	Passes
Identification B	--	A white precipitate is formed that is insoluble in dilute sodium hydroxide solution R.	Passes
Acidity or Alkalinity	--	Not more than 0.5 mL of 0.01 M hydrochloric acid or 0.01 M sodium hydroxide is required to change the colour of the indicator.	Passes
Acid-soluble substances	%	Maximum 0.3 per cent.	0.12
Oxidisable sulfur compounds	--	The colour of the solution is more intense than that of a standard.	Passes
Soluble barium salts	ppm	Maximum 10.0	< 10.0
Heavy metals	ppm	Maximum 10.0	<10.0
Loss on ignition	%	Maximum 2.0 per cent, determined on 1.0 g at 600 + 50 °C.	0.94

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



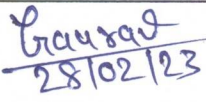
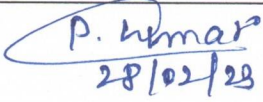
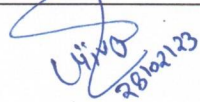


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**CERTIFICATE OF ANALYSIS**

CUSTOMER : M/s	INVOICE : NIL
PRODUCT : Barium sulfate	GRADE : USP
BATCH NO. : BS-16C012023	DATE : 28/02/2023
Date of MFG : 16/01/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Identification	-	Test A – Treat the resulting fused mass with hot water, and filter: the filtrate, acidified with hydrochloric acid, meets the requirements of the tests for Sulfate  Test B- the solution meets the requirements of the tests for Barium.	A - Complies with USP  B - Complies with USP
pH	--	between 3.5 and 10.0, in a 10% (w/w) aqueous suspension	8.6
Heavy metals	--	NMT 10 ppm	< 10
Limit of sulfide	µg	not more than 0.5 µg per g is found	Complies with USP
Limit of acid-soluble substances	-	not more than 0.3%	0.14
Assay	%	Barium Sulfate contains not less than 97.5 percent and not more than 100.5 percent of BaSO <sub>4</sub> .	98.4

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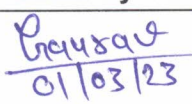
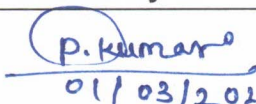
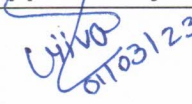
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## CERTIFICATE OF ANALYSIS

CUSTOMER : M/s	INVOICE : NIL
PRODUCT : Barium sulfate	GRADE : EP
BATCH NO. : BS-16D022023	DATE : 01/03/2023
Date of MFG: 16/02/2023	Date of EXP : 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Appearance	--	fine, white or almost white powder, free from gritty particles.	Complies with EP
Solubility	--	practically insoluble in water and in organic solvents. It is very slightly soluble in acids and in solutions of alkali hydroxides.	Complies with EP
Identification	--	Test A – The solution gives the reactions of sulphates. Test B- A white precipitate is formed that is insoluble in dilute sodium hydroxide.	A - Complies with EP B - Complies with EP
Acidity or alkalinity	--	Not more than 0.5 mL of 0.01 M hydrochloric acid or 0.01 M sodium hydroxide is required to change the colour of the indicator.	Complies with EP
Acid-soluble substances	--	The residue weighs a maximum of 15 mg	6
Oxidisable sulfur compounds	--	The colour of the solution is more intense than that of a standard	Complies with EP
Soluble barium salts	ppm	maximum 10 ppm	< 10
Heavy metals	ppm	maximum 10 ppm	< 10
Loss on ignition	--	maximum 2.0 per cent, determined on 1.0 g at 600 ± 50 °C.	1.18

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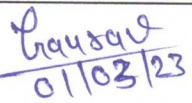
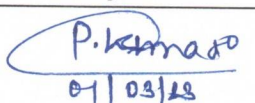
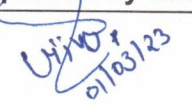
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## CERTIFICATE OF ANALYSIS

CUSTOMER :	INVOICE : NIL
PRODUCT : Barium sulfate	GRADE : JP
BATCH NO. : BS-17C022023	DATE : 01/03/2023
Date of MFG: 17/02/2023	Date of EXP:3 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	--	Barium Sulfate occurs as a white powder. It is odorless and tasteless.	Complies with JP
Solubility	--	It is practically insoluble in water, in ethanol (95) and in diethyl ether. It does not dissolve in hydrochloric acid, in nitric acid and in sodium hydroxide TS.	Complies with JP
Identification	--	Test A – The solution gives the reactions of sulphates. Test B- the solution responds to the Qualitative Tests for barium salt.	A - Complies with JP B - Complies with JP
Acidity or alkalinity	--	alkalinity. Agitate 1.0 g of Barium Sulfate with 20 mL of water for 5 minutes: the solution is neutral.	Complies with JP
Phosphate	--	no yellow precipitate is produced.	Complies with JP
Sulfide	--	the gas evolved does not darken moistened lead (II) acetate paper.	Complies with JP
Heavy metals	ppm	maximum 10.0 ppm	< 10.0
Arsenic	ppm	maximum 1 ppm	< 1.0
Hydrochloric acid-soluble substances and soluble barium salts	--	To the filtrate add 0.5 mL of dilute sulfuric acid, and allow to stand for 30 minutes: no turbidity is produced.	Complies with JP

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