



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

PRODUCT: ZINC OXIDE

BATCH NO.: Zo-05C022023

Date of MFG.: 05/02/2023

Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	A soft white or faintly yellowish white amorphous powder. Free from grittiness. It gradually absorbs carbon dioxide from air.	Complies to IP
Assay / Purity	%	99-100.5 %	99.92
Identification	-	A –it becomes yellow when strongly heated & yellow colour disappear on cooling B –Dissolve 0.1gm sample in 1.5 ml of 2M HCL & dilute with 5 Ml of H2O. The soln gives reaction of zinc salt.	Test A Passes Test B Passes
Alkalinity	- 1	NMT 0.3 ml of 0.1 M HCL requires to discharge the colour of phenolphthalein	Complies to IP
Carbonate and colour of solution		On dissolving in 2M HCl there should be no effervescence & soln is not more opalescent than opalescence std. OS2 & colour less as per prescribed method.	Complies to IP
Arsenic	ppm	5.0 (max.)	< 5.0 ppm
Lead	-	Passes the prescribed test for lead.	Test Passes
Iron	ppm	400 (max.)	< 400 ppm
Loss on Ignition	%	1.0 % Max at 500°C Temp.	0.22

Tested by Chemist	Checked by QA	Approved by Lab Head
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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: Nill
PRODUCT: ZINC OXIDE GRADE: BP-2022

BATCH NO.: ZO-16F022023 DATE: 28/02/2023

Date of MFG.: 16/02/2023 Date of EXP: 5 years from MFG

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PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Appearance	-	Soft, white or faintly yellowish-white, amorphous powder, free from gritty particles.	Passes
Solubility	-	Practically Insoluble in water and in ethanol (96 per cent) . It Dissolves in dilute Mineral Acids.	Complies to BP
Identification	, , -	A –it becomes yellow when strongly heated & yellow colour disappear on cooling. B – Sol. Gives the reaction of zinc	Test A - Passes Test B - Passes
Alkalinity	-	NMT 0.3 ml of 0.1 M HCL requires to Change the colour of indicator Indicator.	0.2 ml of 0.1 M HCL requires to Change the colour of indicator Indicator
Carbonates and Substances insoluble in acids	-	Should be pass the prescribed test.	Complies to BP
Cadmium	ppm max	5.0	0.16
Thallium	ppm max	5.0	<5.0
Iron	ppm max	200.0	14.94
Lead	ppm max	10.0	5.28
Loss on Ignition	%	1.0 % Max at 500°C Temp.	0.19
Assay	%	99.0 – 100.5 % (Ignited Substance) As Zn	99.97

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

CUSTOMER : M/s	Invoice : Sample	
PRODUCT : ZINC OXIDE	GRADE : USP - 43	
BATCH NO. : ZO-16A022023	DATE : 28/02/2023	
Date of MFG.: 16/02/2023	Date of EXP: 5 years from MFG	

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	A soft white or faintly yellowish white amorphous powder. Free from grittiness. It gradually absorbs carbon dioxide from air.	Complies to USP
Identification	-	A –it becomes yellow when strongly heated & yellow colour disappear on cooling. B – The retention time of the zinc peak	Test A Passes
		of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.	Test B Passes
Assay / Purity	%	NLT 98.0% and NMT 102.0% of zinc oxide (ZnO), On ignited, Basis	99.94
Arsenic	ppm	6.0 (max.)	< 6.0
Lead	-	No turbidity or precipitate is produced.	Test Passes
Iron & Other Heavy metals		White precipitates are formed in both aliquots.	Test Passes
Loss on Ignition	%	1.0 % Max at 500° to constant weight.	0.15
Alkalinity	-	If a red color is produced, NMT 0.30 mL of 0.10 N hydrochloric acid is required to discharge it.	Complies to USP
Carbonate and color of solution	-	No effervescence occurs, and the resulting solution is clear and colorless.	Complies to USP

	Head	Approved by Lab	Checked by QA	Tested by Chemist
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12.	ES 337 22	Mr. Ujjval Tiwari	Mr. Prince Srivastava	Mr. Gaurav Sen
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CERTIFICATE OF ANALYSIS

CUSTOMER: M/s
PRODUCT: ZINC OXIDE
GRADE: EP

BATCH NO.: ZO-11F022023
Date of MFG.: 11/02/2023
Date of EXP: 5 years from MFG

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Appearance: soft, white or faintly yellowishwhite, amorphous powder, free from gritty	Complies with EP
		particles.	
Solubility		practically insoluble in water and in ethanol (96 percent). It dissolves in dilute mineral acids.	Complies with EP
Identification	-	A. It becomes yellow when strongly heated; the yellow colour disappears on cooling. B. Dissolve 0.1 g in 1.5 mL of dilute hydrochloric acid R and dilute to 5 mL with water R. The	Passes
		solution gives the reaction of zinc	Passes
Alkalinity	-	0.1 M hydrochloric acid is required to change the colour of the indicator.	Passes
Carbonates and substances insoluble in acids.	-	the solution is not more opalescent than reference suspension II	Complies with EP
Arsenic	ppm	Not more than 5 ppm	<5.0
Cadmium	ppm	Not more than 10 ppm	0.89
Iron	ppm	Not more than 200 ppm	26.59
Lead	ppm	Not more than 50 ppm	6.87
Loss on Ignition	%	Not more than 1.0%, (1 g, 500°C, 1 hour).	0.19
Assay	%	contains not less than 99.0- 100.5 %	99.92

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





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CERTIFICATE OF ANALYSIS

CUSTOMER:	INVOICE :	
PRODUCT : Zinc Oxide	GRADE : JP	
BATCH NO. : ZO- 19E022023	DATE : 01/03/2023	
Date of MFG.: 19/02/2023	Date of EXP: 5 years from MFG	

PROPERTY	UNIT	SPECIFICATIONS	TEST VALUE
Description	-	Zinc Oxide occurs as a white, amorphous powder. It is odorless and tasteless. it It gradually absorbs carbon dioxide from air.	Complies to JP
Solubility	-	It is practically insoluble in water, in ethanol (95), in acetic acid (100) and in diethyl ether.	Complies to JP
		It dissolves in dilute hydrochloric acid and in sodium hydroxide TS.	
Identification		Test A – Heat Zinc Oxide strongly: a yellow color develops on strong heating, and disappears on cooling.	Passes
Identification -		Test B - A solution of Zinc Oxide in dilute hydrochloric acid (1 in 10) responds to the Qualitative Tests for zinc salt.	Passes
Carbonate, and clarity and color of solution	-	the solution obtained is clear and colorless.	Passes
Alkali	-	add 2 drops of phenolphthalein TS and 0.20 mL of 0.1 mol/L hydrochloric acid VS: no color develops.	Passes
sulfate	%	not more than 0.096%	< 0.096
iron	ppm	Not more than 10 ppm	<10.0
Lead	-	no turbidity is produced.	Passes
Arsenic	ppm	Not more than 4 ppm	<4.0
Loss on ignition	%	Not more than 1.0% (1 g, 850*C, 1 hour).	0.21
Assay	%	contains not less than 99.0% of ZnO.	99.85

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