

Registered Office: Jalan Complex Gate No1 Lane 5 Howrah 711411, West Bengal, India

Certificate of Analysis (COA)

Customer Name: M/s	Batch No.: WLSPL – ZO – 11F082025
Product Name: Zinc Oxide	Grade: IP/ USP/ BP/ EP
Date of Mfg.: August 2025	Date of Expiry: July 2030 (5 years)

Test Parameter	Specifications	Test Value/ Reference
Description & Solubility	A soft white or faintly yellowish white amorphous powder, free from gritty particles. It gradually absorbs carbon dioxide from air. Practically Insoluble in water and in ethanol (96%). It dissolves in dilute mineral acids.	Complies with USP/BP/EP/JP/IP
Identification: Test A (USP/EP/BP/IP/JP)	It becomes yellow when strongly heated; the yellow colour disappears on cooling.	Complies with USP/BP/EP/JP/IP
Identification: Test B (EP/BP/IP)	Solution gives the reaction of zinc	Complies with EP/BP/IP
Identification: Test B (USP)	Dissolve in a slight excess of 3N Hydrochloric acid responds to the test of Zinc.	Complies with USP
Identification: Test C	Within a short time, a white ring is rapidly formed around the drop of water.	Complies with USP
Alkalinity (EP/BP/IP)	NMT 0.3ml of 0.1 M HCL requires to change the colour of the indicator	Complies with EP/BP/IP
Alkalinity (USP)	Mix 1.0g with 10ml of hot water, add 2 drops of phenolphthalein TS, and filter: if a red color is produced, NMT 0.30ml of 0.10 N hydrochloric acid is required to discharge it.	Complies with USP
Carbonate and Substance insoluble in Acids (BP/EP)	Dissolve 1.0g in 15ml of dilute hydrochloric acid R. It dissolves without effervescence and the solution is not more opalescent than reference suspension II (2.2.1) and is colourless (2.2.2, Method II).	Complies with BP/EP
Carbonate and Substance insoluble in Acids (IP)	Dissolve 1.0g in 15ml of 2M hydrochloric acid R. No effervescence produced and the solution is not more opalescent than standard OS2 (2.4.1) and is colourless (2.4.1).	Complies with IP
Carbonate and color of solution (USP)	Mix 2.0g with 10ml of water, add 30ml of 2 N sulfuric acid, and heat on a steambath, with constant stirring: no effervescence occurs and the resulting solution is clear and colourless	Complies with USP
Arsenic (IP)	NMT 5.0 ppm	Complies: <5.0 ppm
Arsenic (USP)	NMT 6.0 ppm	Complies: <6.0 ppm
Iron (BP/EP)	NMT 200.0 ppm	Complies: 11.58 ppm
Iron (IP)	NMT 400.0 ppm	Complies: 11.58 ppm
Cadmium (BP/EP)	NMT 10.0 ppm	Complies: 0.40 ppm
Lead (BP/EP)	NMT 10.0 ppm	Complies: 9.24 ppm
Lead (IP)	Dissolve 2g in 20ml mixture of water and 5ml of glacial acetic acid and add 0.25ml potassium chromate solution, the solution remains clear	Complies: 9.24 ppm
Lead (USP)	No turbidity produced	Complies

Analyzed by 70067079 / 22.8.2025 13:17:49 Ms. Khushboo Mishra (Executive QC)	Checked by 70067079 / 22.8.2025 14:11:29 Mr. Himanshu Kamal (Manager QC)	Approved by 724633 / 22.8.2025 14:35:03 Mr. Ujjval Tiwari (Lab Head)
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Thallium (BP/EP)	NMT 5.0 ppm	Complies
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Loss on Ignition (EP/BP/IP/USP)	NMT 1% at 500°C ± 50°C for 1 hour	Complies: 0.20%
Assay (BP/IP/USP)	99.0 – 100.5% (ignited substance)	Complies: 99.92%
Conclusion	The above product complies with IP2022/ USP46 / BP2025/ EP11.0 Pharmacopeia	

Storage Conditions: Store in ambient temperature in a tightly closed container. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use.

Note: If not stored as per recommended storage conditions, it may result in presence of foreign particles and or change in other Physico-chemical properties.

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