



M/s. Bimal Pharma Pvt. Ltd.
Mumbai, India

ISO 9001 : 2015



Cert. No.: 110661/A/0001/UK/En

TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Zinc Oxide, IP Grade
Batch No. : Typical COA
CAS No. : 1314-13-2
Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A Soft, White or faintly Yellowish white Amorphous Powder, Free from Grittiness, It gradually absorbs carbon dioxide from air	A soft white Amorphous Powder, free from Grittiness
2.	Identification	A. Zinc Oxide becomes yellow when strongly heated; the yellow colour disappear on cooling	Complies
		B. A white precipitate produced, that is insoluble in dilute Hydrochloric Acid	Complies
3.	Alkalinity	If the filtrate is Red, not more than 0.3ml of 0.1 M HCL is required to discharge the colour	Complies
4.	Carbonate and Substances insoluble in Acid	No effervescence is produced in sample solution and is not more opalescent than OS2 Standard Solution	Complies
5.	Arsenic	NMT 5 ppm	0.31 ppm
6.	Iron	NMT 400 ppm	2.44 ppm
7.	Lead	The resulting solution remains clear	Complies
8.	Loss on Ignition	NMT 1.0 %	0.168 %
9.	Assay	99.0 % to 100.5 % on Ignited basis	99.973 %
Remarks : The Product is approved as per specification with IP Grade and as per customer specification.			



M/s. Bimal Pharma Pvt. Ltd.
Mumbai, India

ISO 9001 : 2015



Cert. No.: 110661/A/0001/UK/En

TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Zinc Oxide, BP Grade
Batch No. : Typical COA
CAS No. : 1314-13-2
Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A Soft, White or faintly Yellowish white amorphous Powder, Free from Gritty Particles	A soft white Amorphous Powder, free from gritty Particles
2.	Identification	A. Zinc Oxide becomes yellow when strongly heated; the yellow colour disappear on cooling	Complies
		B. A white precipitate produced, that is insoluble in dilute Hydrochloric Acid	Complies
3.	Solubility	Zinc Oxide practically insoluble in Water and in Ethanol (96%), But it dissolves in dilute Mineral Acids	Complies
4.	Alkalinity	If the filtrate is Red, not more than 0.3ml of 0.1 M HCL is required to discharge the colour	Complies
5.	Carbonate and Substances insoluble in Acid	No effervescence is produced in sample solution and is not more opalescent than OS2 Standard Solution	Complies
6.	Cadmium	NMT 5 ppm	0.71 ppm
7.	Lead	NMT 10 ppm	3.05 ppm
8.	Thallium	NMT 5 ppm	1.26 ppm
9.	Iron	NMT 200 ppm	2.59 ppm
10.	Loss on Ignition	NMT 1.0 %	0.150 %
11.	Assay	99.0 % to 100.5 % on Ignited basis	99.953 %
Remarks : The Product is approved as per specification with BP Grade and as per customer specification.			



M/s. Bimal Pharma Pvt. Ltd.
Mumbai, India

ISO 9001 : 2015



Cert. No.: 110661/A/0001/UK/En

TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Zinc Oxide, EP Grade
Batch No. : Typical COA
CAS No. : 1314-13-2
Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A Soft, White or faintly Yellowish white Amorphous Powder, Free from Gritty Particles	A soft white Amorphous Powder, free from grittiness
2.	Identification	A. Zinc Oxide becomes yellow when strongly heated; the yellow colour disappear on cooling	Complies
		B. Flocculent white precipitate is formed	Complies
3.	Solubility	Zinc Oxide practically insoluble in Water and in Ethanol (96%), But it dissolves in dilute Mineral Acids	Complies
		Dissolve 0.1 gm of sample, dilute with 100 ml Water and 100 ml of Ethanol	Complies
4.	Alkalinity	If the filtrate is Red, not more than 0.3ml of 0.1 M HCL is required to discharge the colour	Complies
5.	Carbonate and Substances insoluble in Acid	No effervescence is produced in sample solution and is not more opalescent than OS2 Standard Solution	Complies
6.	Cadmium	NMT 5 ppm	0.24 ppm
7.	Lead	NMT 10 ppm	3.42 ppm
8.	Thallium	NMT 5 ppm	2.54 ppm
9.	Iron	NMT 200 ppm	Complies
10.	Loss on Ignition	NMT 1.0 %	0.169 %
11.	Assay	99.0 % to 100.5 % on Ignited basis	99.943 %

Remarks : The Product complies with **EP 11** Specification / in – house.



M/s. Bimal Pharma Pvt. Ltd.
Mumbai, India

ISO 9001 : 2015



Cert. No.: 110661/A/0001/UK/En

TYPICAL CERTIFICATE OF ANALYSIS

Name of the Product : Zinc Oxide, USP Grade
Batch No. : Typical COA
CAS No. : 1314-13-2
Shelf Life : 5 Years

Sr. No.	TEST	SPECIFICATION	RESULT
1.	Description	A Soft, White or faintly Yellowish white Amorphous Powder, Free from grittiness	A soft white Amorphous Powder, free from grittiness
2.	Identification	A. Zinc Oxide becomes yellow when strongly heated; the yellow colour disappear on cooling	Complies
		B. Dissolve in a slight excess of 3 N Hydrochloric Acid	Complies
3.	Alkalinity	If Red colour is produced, NMT 0.3ml of 0.1 N HCl is required to discharge it	Complies
4.	Carbonate and Colour of Solution	No effervescence is produced and the resulting solution is Clear and Colourless	Complies
5.	Arsenic	NMT 6 ppm	0.23 ppm
6.	Iron and Other Heavy Metals	White precipitates are formed	Complies
7.	Lead	No Turbidity or Precipitation is produced	Complies
8.	Loss on Ignition	NMT 1.0 %	0.178 %
9.	Assay	99.0 % to 100.5 % on Ignited basis	99.933 %

Remarks : The Product is approved as per specification with **USP Grade** and as per customer specification.