

### Certificate of Analysis

**Name of Product:** Zinc Oxide (Non Nano)  
**Batch Number:** BBB2511  
**INCI Name:** Zinc Oxide

Test	Standards/Methods	Results
Description	Fine powder	-
Colour	White	-
325 Mesh (45µm)	ASTM D4315	99.9% Min.
Loss on Ignition (500°C)	USP 40	0.2% Max.
Water Insolubles	ASTM D3280	0.1% Max.
Insolubility in HCl	ASTM D3280	0.001% Max.
Specific Gravity	ASTM D854	5.5 – 5.7g/cm <sup>3</sup>
Humidity at 110°C	ASTM D280	0.2% Max.
Specific Surface Area	ASTM D4315	4 – 9m <sup>2</sup> /g
Average Particle Size	Laser Diffraction	0.8µm Max.
pH	Potentiometer	6.8 – 7.5
Identification A	USP 40	Pass
Identification B	USP 40	Pass
Alkalinity	USP 40	Pass
CO <sub>3</sub>	USP 40	Not Present
Colour of Solution	USP 40	Colourless
Storage	Keep in original packaging, tightly closed and dry in a cool, well-ventilated area. Away from sunlight, heat and incompatible materials such as acids and bases.	

Element	Values in % Weight	Reference Method
ZnO	99.9 Min.	USP 40
Total Impurities	0.1 Max.	ASTM D4075
Pb	0.002 Max.	ASTM D4075
Cd	0.001 Max.	ASTM D4075
Fe	0.0005 Max.	ASTM D4075
Cu	0.0002 Max.	ASTM D4075
Cl	0.0005 Max.	ASTM D4075
S	0.001 Max.	ASTM D4075
Mn	0.0001 Max.	ASTM D4075
As	0.0001 Max.	USP 40
Ni	0.0001 Max.	ASTM D4075