

TYPICAL CERTIFICATE OF ANALYSIS

TITANIUM DIOXIDE (USP/ BP / EP)

SR. NO	Item	SPECIFICATION AS PER USP	SPECIFICATION AS PER BP / EP	RESULT
1.	Description	White, Taste less, Odourless, Infusible Powder.	White, Taste less, Odourless, Infusible Powder.	Conforms
2.	Solubility	Insoluble in water and in organic solvents. It dissolves slowly in Hydrofluoric Acid and in hot concentrated Sulphuric Acid.	Insoluble in water and in organic solvents. It dissolves slowly in Hydrofluoric Acid and in hot concentrated Sulphuric Acid.	Conforms
3.	Identification	Peroxide Reaction ; Spectrography; Melting Range.	Peroxide Reaction; Reaction with Zinc Colour on Heating .	Conforms
4.	Loss On Drying	0.5% Max (105° C , 3Hrs)	--	0.18%
5.	Loss On Ignition	0.5% Max (800° C)	--	0.25%
6.	Water Soluble Substance	0.30% Max	0.50% Max	0.20%
7.	Acid Soluble Substance	0.50% Max	--	0.31%
8.	Lead (Pb)	10 PPM Max	20 PPM Max	6.90 ppm
9.	Arsenic	1 PPM Max	5 PPM Max	0.75 ppm
10.	Antimony	2 PPM Max	100 PPM Max	< 0.02ppm
11.	Mercury	1 PPM Max	--	< 0.01ppm
12.	Iron	--	200 PPM	Conforms
13.	Soluble Barium Compounds	Not listed	Should Conform	Conforms
14.	Assay (TiO ₂)	99.00 % to 100.50 % Min.	98.00% to 100.50%	99.22 %
Conclusion : Complies With USP / BP / EP Specification.				