



**M/s. BIMAL PHARMA PVT. LTD.**  
**Mumbai, India**

**TYPICAL CERTIFICATE OF ANALYSIS**

Name of Product : TITANIUM DIOXIDE (FOOD GRADE) (E-171) (FCC VIII)

Batch No. : Typical COA

Standards : E 171 / FCC VIII / EU DIRECTIVE

Shelf Life : 5 Years

SR. NO.	ITEM	SPECIFICATION	RESULT
1.	CHARACTERISTICS	White to slightly colored Powder	White Powder
2.	IDENTIFICATION, SOLUBILITY	Insoluble in water and Organic Solvents. Dissolves slowly in Hydrofluoric Acid and in hot concentrated Sulphuric Acid	Conforms
3.	LOSS ON DRYING (105°C, 3 HOURS)	0.5% Max.	0.27%
4.	LOSS ON IGNITION A VOLATILE MATTER FREE BASIS (800°C)	1.0% Max.	0.30%
5.	WATER SOLUBLE SUBSTANCE	0.25% Max.	0.16%
6.	ACID SOLUBLE SUBSTANCE (0.5N HCl) ALUMINA / SILICA FREE	0.35% Max.	0.24%
7.	ACID SOLUBLE SUBSTANCE (0.5N HCl) CONTAINING ALUMINA / SILICA	1.5% Max.	Not Applicable
8.	LEAD (0.5N HCl SOLUBLE)	10 PPM Max.	3.25 PPM
9.	ARSENIC (0.5N HCl SOLUBLE)	1 PPM Max.	0.60 PPM
10.	ANTIMONY (0.5N HCl SOLUBLE)	2 PPM Max.	0.57 PPM
11.	MERCURY (0.5N HCl SOLUBLE)	1 PPM Max.	< 0.01 PPM
12.	CADMIUM (0.5N HCl SOLUBLE)	1 PPM Max.	< 0.01 PPM
13.	ZINC (0.5N HCl SOLUBLE)	20 PPM Max.	12.69 PPM
14.	BARIUM (0.5N HCl SOLUBLE)	5 PPM Max.	4.34 PPM
15.	pH (50% WATER SUSPENSION)	6.0-8.0	7.22
16.	RETENTION OF MATERIAL ON 400 MESH	0.5% Max.	0.1%
17.	AL <sub>2</sub> O <sub>3</sub> AND / OR SiO <sub>2</sub>	2.0% Max.	<0.02%
18.	WHITENESS	98.0% Min.	98.60%
19.	ASSAY (TiO <sub>2</sub> ) ALUMINA / SILICA FREE	99.0% Min.	99.20%

**CONCLUSION : COMPLIES WITH E 171 / FCC VIII / EU DIRECTIVE.**