

SPECIFICATION OF TITANIUM DIOXIDE, LABORATORY REAGENTS



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ISO 9001 : 2015 & AEO T1 Certified

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

e : info@bimalpha.com / info@nisinindia.com

Mob.: 0091- 9702968181 / 9322591096



URS : UKAS

Technical Information

- **NOMENCLATURE** : Titanium dioxide
: Titanium (IV) oxide
: Titanium white
: Titania
: Pigment White 6 (PW6)
- **HSN CODE** : 32061110 / 28230000
- **CAS NO.** : 13463-67-7
- **EMPIRICAL FORMULA** : TiO_2
- **MOL. WT.** : 79.87
- **MELTING POINT** : 1843 °C
- **STRUCTURAL FORMULA** : $O=Ti=O$

Technical Specification : Typical COA as per LR

Sr. No.	Parameter	Specification	Result
1.	Description	White, Amorphous Powder	White, Amorphous Powder
2.	Solubility	Insoluble in Water, Soluble in HF	Complies
3.	Assay	98.0% Min	99.07%
4.	Iron (Fe)	0.05%	Less than 0.05%
5.	Loss on Ignition	0.5%	0.3%

Technical Specification : Typical COA as per AR

Sr. No.	Parameter	Specification	Result
1.	Description	White, Amorphous Powder	White, Amorphous Powder
2.	Solubility	Insoluble in Water, In Hydrochloric Acid. Soluble in Hydrofluoric Acid	Complies
3.	Identification	Passes Test	Passes Test
4.	Assay	99.0% - 100.5 %	99.07%
5.	Water Soluble Substances	0.25%	0.20%
6.	Acid Soluble Substances	0.5%	0.30%
7.	Arsenic (As)	0.0001%	Less than 0.0001%
8.	Iron (Fe)	0.05%	Less than 0.05%
9.	Lead (Pb)	0.002%	Less than 0.002%
10.	Loss on Drying (at 105°C for 3 hours)	0.5%	0.34%
11.	Loss on Ignition	0.5%	0.38%

PACKING : 1 kg / 5 kgs. Plastic Jar

MOQ : 1000 kgs.

**Heavy Metals Contents, Tested by Independent Professional Testing Laboratory,
NABL & FSSAI approved (By one Lab.)**

Sr. No.	Parameters	Units	Results of Analysis	Limits as per FCC
1	Lead	mg/kg	BLQ	Max. 10
2	Cadmium	mg/kg	BLQ	Not Specified
3	Copper	mg/kg	BLQ	Not Specified
4	Arsenic	mg/kg	BLQ	Max. 1
5	Tin	mg/kg	BLQ	Not Specified
6	Methyl Mercury as Mercury	mg/kg	BLQ	Not Specified
7	Mercury	mg/kg	BLQ	Max. 1

BLQ - Below Limit of Quantification

LOQ (Limit of Quantification) for Heavy Metals = 0.5mg/kg

FCC : Food Chemical Codex

Heavy Metals Contents & Other Critical Parameters, Tested by Independent Professional Testing Laboratory, NABL & FSSAI approved (By the other Lab.)

Sr. No.	Test Parameters	Test Results	Specification
1	Loss on Drying	0.31%	NMT 0.5%
2	Loss on Ignition	0.26%	NMT 1.0%
3	Water Soluble Substance	0.17%	NMT 0.5%
4	Acid Soluble Substance	0.31%	NMT 0.5%
5	Lead	Not Detected	NMT 10.0 mg/kg
6	Cadmium	Not Detected	NMT 1.0 mg/kg
7	Mercury	Not Detected	NMT 1.0 mg/kg
8	Arsenic	Not Detected	NMT 1.0 mg/kg

