

Certificate of Analysis
(Representative Sample Certificate)

Product Name: Titanium Dioxide Micronized
INCI Name: Titanium Dioxide
CAS Number: 13463-67-7, 1333-84-2, 143-07-7
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Characteristics	Specifications	Analysis
Color	White	Conforms
Appearance	Fine powder	Conforms
Odor	Odorless	Conforms
Titanium Dioxide (TiO ₂)	81.0 +/- 3%	82.0%
Alumina (Al ₂ O ₃)	8.0 - 11.5%	9.0%
Lauric Acid	1.0 - 3.0%	2.0%
pH (10% aqueous solution)	5.8 - 7.8	7.3
Average Particle Size	10-20nm	15nm
Loss on drying (105°C)	≤3.0%	1.3%
Los on ignition (800°C)	≤9.0%	6.1%
Surface area (BET)	70 - 120 m ² /g	98m ² /g
Mircobial Purity (USP)	≤100 CFU/g	≤100 CFU/g

TiO₂ Assay

Identity (USP)	Conforms	Conforms
Loss on ignition (USP)	≤13%	4%
Content of TiO ₂ (USP)	99.0 - 100.5%	100%
Water soluble substances (USP)	≤0.25%	≤0.25%
Substances soluble in acid (USP)	≤0.5%	≤0.5%
Arsenic (As)	≤0.0001%	≤0.0001%
Lead (Pb)	≤0.0001%	≤0.0001%
Mercury (Hg)	≤0.001%	≤0.001%
Antimony (Sb)	≤0.0002%	≤0.0002%
Residual Solvetn (USP)	Conforms	Conforms

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

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