



TKB TRADING, LLC
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Certificate of Analysis (Representative Sample)

**GOLD FINE
 COSMETIC PIGMENT**

Lot Number

Date of Manufacture

Expiration Date:

ANALYTICAL DATA

SOP's

SPECS

RESULTS

Color and Appearance	Merck KGaA	Conforms	Conforms
Content of Mica * Content of TiO2	Merck KGaA	36.0 -52.0	41.8 %
Content of Fe2O3	Merck KGaA	42.0 -52.0	48.5 %
pH (10 % Suspension)	Merck KGaA	6.0 -12.0	9.7 %
Particle size distribution (80% within 5 - 25 um)	ISO 787-9	6.0 -11.0	8.0
Median particle size (D50)	Laser diffraction	Conforms	Conforms
Loss on Drying (2 hrs, 105 degrees C)	Laser diffraction	7.0 -14.0	11.3 μ
	Merck KGaA	< /=0.5	< /= 0.5 %

Microbial Purity

USP or EP or JP

Total Viable Aerobic Count	< 100 CFU/g
E. coli	Absent in 1g
Pseudomonas aeruginosa	Absent in 1g
Staphylococcus aureus	Absent in 1g
Salmonella species	Absent in 10g
Gram negative bacteria	Absent in 1g
Candida albicans	Absent in 1g

Heavy Metals

Modified CTFA/Internal

Arsenic < 2 ppm	Barium < 50 ppm	Cadmium < 3 ppm
Chromium < 100 ppm	Copper < 50 ppm	Mercury < 1 ppm
Nickel < 10 ppm	Lead < 10 ppm	Antimony < 1 ppm
Zinc < 50 ppm		

This material does not contain organic colorants.

The color additives in this material meet all applicable purity requirements of the FDA(21 - CFR), the E.C. and Japan for cosmetic use.

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* Calculated by Difference