



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