



TKB TRADING, LLC  
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## Certificate of Analysis (Representative Sample Certificate)

24 KARAT GOLD  
 COSMETIC PIGMENT

Lot Number Not available (data may vary slightly with different lots or batches)

Date of Manufacture N/a Expiration Date N/a

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance		Conforms	Conforms
Content of Mica *		74.0 -85.0	79.4%
Content of TiO2		10.0 -16.0	13.9%
Content of Fe2O3		5.0 -10.0	6.7%
pH (10 % Suspension)	ISO 787-9	7.0 -10.0	7.2
Particle size distribution (80 % within 10 -150 um)	Laser diffraction	Conforms	Conforms
Median particle size (D50)	Laser diffraction	65.0 -82.0	75.6 μ
Loss on Drying (2 hrs, 105 degrees C)	ASTM 1208-96	< /=0.5	0.0%

**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
Chromium	< 100 ppm	Cadmium	< 3 ppm
Nickel	< 10 ppm	Mercury	< 1 ppm
Zinc	< 50 ppm	Lead	< 10 ppm
		Antimony	< 1 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.

This document has been produced electronically and bears no signature

\* Calculated by Difference

E. Anderson

QC Group Leader