



TKB TRADING, LLC
 1101 9th Avenue
 Oakland, CA 94606
 Tel: 510-922-9027
 www.tkbtrading.com

**Certificate of Analysis
 (Representative Sample Certificate)**

**Transparent Gold
 COSMETIC PIGMENT**

Date of Manufacture N/A

Issue Date: N/A

Lot Number : N/A

Expiration Date: N/A

ANALYTICAL DATA

	SOP's	SPECS	RESULTS
Color and Appearance	EMD	Conforms	Conforms
Content of Mica * Content of TiO2	EMD	70.0 -78.0	74.1 %
Content of Fe2O3	EMD	19.0 -24.0	21.9 %
pH (10 % Suspension)	EMD	3.0 -6.0	4.0 %
	ISO 787-9	8.0 -11.0	10.2
Particle size (Laserbeam Diffraction) 80 % of particles between 5 - 90 um	MALVERN	Conforms	Conforms
Median particle size (D50)	MALVERN	27.0 -37.0	33.8 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	Cadmium < 3 ppm
Chromium < 100 ppm	Copper < 50 ppm	Mercury < 1 ppm
Nickel < 10 ppm	Lead < 10 ppm	Antimony < 1ppm
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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