



Certificate of Analysis

(Representative Sample)

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**SILKEN GOLD
 COSMETIC PIGMENT**

Lot Number N/A
 Date of Manufacture N/A

Expiration Date: N/A

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance	Merck KGaA	Conforms	Conforms
Content of Mica *	Merck KGaA	41.0 -50.0	45.6 %
Content of TiO2	Merck KGaA	50.0 -58.0	53.8 %
Content of SnO2	Merck KGaA	0.0 -1.0	0.6 %
pH (10 % Suspension)	ISO 787-9	8.0 -11.0	9.9
Particle Size (Laserbeam Diffraction)	MALVERN	Conforms	Conforms
80% of particles between 5 - 25 um			
Median particle size (D50)	MALVERN	7.0 -14.0	11.7 μ
Loss on Drying (2hrs, 105 degrees C)	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 < 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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* Calculated by Difference