



# Certificate of Analysis

**Starlight Gold  
 COSMETIC PIGMENT**

Issue Date: N/A

Lot Number N/A

Date of Manufacture N/A

Expiration Date: N/A

**ANALYTICAL DATA**

**SOP's**

**SPECS**

**RESULTS**

Color and Appearance	EMD	Conforms	Conforms
Content of Mica *	EMD	71.0 -78.0	73.4 %
Content of TiO2	EMD	22.0 -28.0	25.8 %
Content of SnO2	EMD	0.0 -1.0	0.8 %
pH(10% Suspension)	ISO 787-9	7.0 -11.0	8.6
Particle size distribution (80% within 10-125um)	Laser diffraction	Conforms	Conforms
Median Particle Size D-50	Laser diffraction	40.0 -55.0	47.9 μ
Loss on Drying (2 hrs. 105 degrees C)	ASTM 1208-96	</=0.5	0.1

**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