



# Certificate of Analysis

**Starlight Blue  
 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**

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance	EMD	Conforms	Conforms
Content of Mica *	EMD	62.0 -68.0	64.5 %
Content of TiO2	EMD	32.0 -37.0	34.7 %
Content of SnO2	EMD	</=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 (D50)	Laser diffraction	35.0 -52.0	37.4 μ
Loss on Drying (2 Hrs, 105C)	ASTM 1208-96	</=0.5	0.5

**Microbial Purity**

Microbial Purity	USP or EP or JP	Results
Total Viable Aerobic Count	USP or EP or JP	< 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