



# Certificate of Analysis

## (Representative Sample)

TKB TRADING, LLC  
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**Sienna Fine  
 COSMETIC PIGMENT**

Lot Number N/A

Date of Manufacture N/A

Expiration Date: N/A

**ANALYTICAL DATA**

	SOP's	SPECS	RESULTS
Color and Appearance			
Content of Mica * Content of Fe2O3	Merck KGaA	Conforms	Conforms
Particle size distribution (80% within 5 - 25 µm)	Merck KGaA	35.0 -45.0	40.8 %
Median particle size (D50)	Merck KGaA	55.0 -65.0	59.2 %
	Laser diffraction	Conforms	Conforms
	Laser diffraction	7.0 -14.0	13 µ
pH (10% aqueous suspension)	ISO 787-9	3.0 -7.0	4.8
Loss on Drying (2 hrs. 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	< 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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