

# Certificate of Analysis (Representative Sample)

Green Sparks

**COSMETIC PIGMENT**

Product Number            KQ - 201

Lot Number

Date of Manufacture

Expiration Date:

**ANALYTICAL DATA**

**SOP's**

**SPECS**

**RESULTS**

Color and Appearance	Merck KGaA		Conforms	
Content of Calcium-Aluminum Borosilicate *	Merck KGaA	59.0 -75.0	66.3 %	**
Content of TiO <sub>2</sub>	Merck KGaA	24.0 -35.0	29.8 %	
Content of SiO <sub>2</sub>	Merck KGaA	1.0 -5.0	3.2 %	
Content of SnO <sub>2</sub>	Merck KGaA	</=1.0	0.7 %	
Particle size distribution (80% within 20 - 200 µm)	Laser diffraction		Conforms	
Median particle size (D50)	Laser diffraction	75.0 -95.0	73.8 µ	
pH (10% aqueous suspension)	ISO 787-9	8.0 -11.0	10.5	
Loss on Drying (2 hrs, 105 degrees C)	Merck KGaA	</=1.0	</= 1.0	

**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

\*\* Non Conforming

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

This document has been produced electronically and bears no signature

\* Calculated by Difference

QC Specialist, Methods Development