



Certificate of Analysis (Representative Sample)

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Copper Sparks

COSMETIC PIGMENT

Product Code KQ - 203

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	58.0 -75.0	65.6 %
Content of TiO2	Merck KGaA	12.0 -21.0	15.4 %
Content of SiO2	Merck KGaA	13.0 -20.0	18.4 %
Content of SnO2	Merck KGaA	</=1.0	0.6 %
pH (10% aqueous suspension)	ISO 787-9	8.0 -11.0	9.6
Particle size distribution (80% within 0 - 200 µm)	Laser diffraction		Conforms
Median particle size (D50)	Laser diffraction	75.0 -95.0	78.5 µ
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

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