



**Certificate of Analysis  
(Representative Sample Certificate)**

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**AQUA SPARKS**

**COSMETIC PIGMENT**

Lot Number Not available (data may vary slightly with different lots or batches)  
Date of Manufacture N/a

Expiration Date: N/a

**ANALYTICAL DATA**

**SOP's**

**SPECS**

**RESULTS**

Color and Appearance	Merck KGaA		Conforms
Calcium Aluminum Borosilicate *	Merck KGaA	59.0 -75.0	69.4 %
Content of TiO2	Merck KGaA	24.0 -34.0	26.6 %
Content of SiO2	Merck KGaA	1.0 -6.0	3.4 %
Content of SnO2	Merck KGaA	</=1.0	0.6 %
Particle size distribution (80% within 20 - 200 µm)	Laser diffraction		Conforms
Median particle size (D50)	Laser diffraction	75.0 -95.0	79.2 µ
pH (10% aqueous suspension)	ISO 787-9	8.0 -11.0	10.6
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

This document has been produced electronically and bears no signature

QC Specialist, Methods Development

\* Calculated by Difference