Customer:

Certificate of Analysis

(Representative Sample Certificate)

Product Name	Green Sparks
Lot Number	Not available (data may vary slightly with different lots or batches)
Date of Manufacture	03.08.2019
Expiration Date:	03.21.2029

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 TiO2	Merck KGaA	24.0 -35.0	29.8 %	
Content of SiO2	Merck KGaA	1.0 -5.0	3.2 %	
Content of SnO2	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

Quality Control
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