



Certificate of Analysis

(Representative Sample)

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**Travel to Earth
 COSMETIC PIGMENT**

Product Code KQ -105

Issue Date:

Lot Number

Date of Manufacture

Expiration Date:

ANALYTICAL DATA

SOP's

SPECS

RESULTS

Color and Appearance	Merck KGaA	Conforms	Conforms
Content SiO ₂	Merck KGaA	51.0 -64.0	57.9 %
Content of TiO ₂	Merck KGaA	35.0 -45.0	39.5 %
Content of SnO ₂	Merck KGaA	1.0 -4.0	2.6 %
pH (10 % Suspension)	ISO 787-9	7.0 -11.0	9.5
Particle size distribution (80% within 5 - 50 µm)	Laser diffraction	Conforms	Conforms
Median particle size (D-50)	Laser diffraction	17.0 -23.0	20.8 um

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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QC Specialist, Methods Development