



CERTIFICATION OF ANALYSIS
(Representative Sample)

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TRAVEL TO MARS
COSMETIC PIGMENT

Product Code KQ - 103

Lot Number

Date of Manufacture

Expiration Date:

ANALYTICAL DATA

Color and Appearance
Content of Mica *
Content of TiO2
Content SiO2
Content of SnO2
pH (10% Suspension)
Particle size distribution
(80% within 10 - 60 µm)
Median particle size (D-50)
Loss on Drying (2 hrs, 105 degrees C)

SOP's

Merck KGaA
Merck KGaA
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ISO 787-9
Laser diffraction
Laser diffraction
Merck KGaA
USP or EP or JP

SPECS

Conforms
15.0 -37.0
33.0 -44.0
30.0 -40.0
<=1.0
7.0 -11.0
Conforms
19.0 -25.0
<=0.5

RESULTS

Conforms
25.0 %
39.8 %
34.6 %
0.6 %
9.4
Conforms
22.9 um
0.5 %

Microbial Purity

Total Viable Aerobic Count
E. coli
Pseudomonas aeruginosa
Staphylococcus aureus
Salmonella species
Gram negative bacteria
Candida albicans

< 100 CFU/g
Absent in 1g
Absent in 1g
Absent in 1g
Absent in 10g
Absent in 1g
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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* Calculated by Difference