



**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**

**SOP's**

**SPECS**

**RESULTS**

Color and Appearance	Merck KGaA	Conforms	Conforms
Content of Mica *	Merck KGaA	15.0 -37.0	25.0 %
Content of TiO2	Merck KGaA	33.0 -44.0	39.8 %
Content SiO2	Merck KGaA	30.0 -40.0	34.6 %
Content of SnO2	Merck KGaA	<=1.0	0.6 %
pH (10% Suspension)	ISO 787-9	7.0 -11.0	9.4
Particle size distribution (80% within 10 - 60 µm)	Laser diffraction	Conforms	Conforms
Median particle size (D-50)	Laser diffraction	19.0 -25.0	22.9 um
Loss on Drying (2 hrs, 105 degrees C)	Merck KGaA	<=0.5	0.5 %

**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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\* Calculated by Difference