



**CERTIFICATION OF ANALYSIS  
(Representative Sample)**

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**TRAVEL TO JUPITER  
COSMETIC PIGMENT**

Product Code                    KQ - 104

Lot Number

Date of Manufacture

Expiration Date:

**ANALYTICAL DATA**

Color and Appearance  
Content of SiO<sub>2</sub>  
Content of TiO<sub>2</sub>  
Content of SnO<sub>2</sub>  
Particle size distribution  
(80% within 5 - 50 μm)  
Median particle size (D50)  
pH (10% aqueous suspension)  
Loss on Drying(2 hrs, 105 degrees C)

**SOP's**

Merck KGaA  
Merck KGaA  
Merck KGaA  
Merck KGaA  
Laser diffraction  
Laser diffraction  
ISO 787-9  
Merck KGaA

**SPECS**

Conforms  
72.0 -84.0  
14.0 -24.0  
2.0 -4.0  
Conforms  
15.0 -21.0  
8.0 -12.0  
</=1.0

**RESULTS**

Conforms  
76.4 %  
20.3 %  
3.3 %  
Conforms  
18.1 μ  
10.1  
</= 1.0

**Microbial Purity**

USP or EP or JP

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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