



**CERTIFICATION OF ANALYSIS**  
(Representative Sample)

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**TRAVEL TO PLUTO**  
**COSMETIC PIGMENT**

Product Number            KP - 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>  
pH (10% aqueous suspension)  
Particle size distribution  
(80% within 5 - 50 μm)  
Median particle size (D50)  
Loss on Drying(2 hrs. 105 degrees C)

**SOP's**

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

**SPECS**

Conforms  
57.0 -68.0  
30.0 -39.0  
2.0 -4.0  
8.0 -12.0  
Conforms  
16.0 -23.0  
< /= 1.0

**RESULTS**

Conforms  
66.1 %  
30.8 %  
3.1 %  
9.9  
Conforms  
20.4 μ  
< /= 1.0 %

**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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