



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 SiO₂
Content of TiO₂
Content of SnO₂
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
Laser diffraction
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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