



**CERTIFICATION OF ANALYSIS
(Representative Sample)**

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**TRAVEL TO MERCURY
COSMETIC PIGMENT**

Product Code KQ - 102

Lot Number

Date of Manufacture

Expiration Date:

ANALYTICAL DATA

Color and Appearance

Content of SiO₂

Content of Fe₂O₃

pH (10% aqueous suspension)

Particle size distribution
(80% within 5 - 50 µm)

Median particle size (D50)

SOP's

Merck KGaA

Merck KGaA

Merck KGaA

ISO 787-9

Laser diffraction

Laser diffraction

USP or EP or JP

SPECS

Conforms

71.0 -81.0

19.0 -29.0

8.0 -12.0

Conforms

16.0 -22.0

RESULTS

Conforms

77.0 %

23.0 %

9.9

Conforms

20.7

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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