



Certificate of Analysis

Passion Orange COSMETIC PIGMENT

Product Name: **Passion Orange**

ANALYTICAL DATA

Color and Appearance
 Content of Mica *
 Content of Fe₂O₃
 Content of Al₂O₃
 pH (10% aqueous suspension)

SOP's

Merck Japan
 Merck Japan
 Merck Japan
 Merck Japan
 Merck Japan

SPECS

Conforms
 53.0 -63.0
 36.0 -44.0
 1.0 -3.0
 7.0 -11.0

RESULTS

Conforms
 59.4 %
 39.5 %
 1.1 %
 8.8

Particle size distribution
 (80% within 10 - 60 μm)
 PS Analysis Laser Diffraction D-50
 Loss on Drying (2 hrs, 105 degrees C)

Laser diffraction
 Laser diffraction
 Merck Japan

Conforms
 18 -25
 < /=0.5

Conforms
 21.0 μ
 < /= 0.5 %

USP or EP or JP

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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