



Certificate of Analysis

Passion Orange COSMETIC PIGMENT

Product Name: **Passion Orange**

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance	Merck Japan	Conforms	Conforms
Content of Mica *	Merck Japan	53.0 -63.0	59.4 %
Content of Fe ₂ O ₃	Merck Japan	36.0 -44.0	39.5 %
Content of Al ₂ O ₃	Merck Japan	1.0 -3.0	1.1 %
pH (10% aqueous suspension)	Merck Japan	7.0 -11.0	8.8
		Conforms	Conforms
Particle size distribution (80% within 10 - 60 μm)	Laser diffraction	18 -25	21.0 μ
PS Analysis Laser Diffraction D-50	Laser diffraction	< /=0.5	< /= 0.5 %
Loss on Drying (2 hrs, 105 degrees C)	Merck Japan		
<u>Microbial Purity</u>	USP or EP or JP		
Total Viable Aerobic Count			< 100 CFU/g
E. coli			Absent in 1g
Pseudomonas aeruginosa			Absent in 1g
Staphylococcus aureus			Absent in 1g
Salmonella species			Absent in 1g
Gram negative bacteria			Absent in 10g
Candida albicans			Absent in 1g
<u>Heavy Metals</u>			Absent in 1g

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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