



Certificate of Analysis

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Colorona Russet COSMETIC PIGMENT

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance	EMD	Conforms	Conforms
Content of Mica *	EMD	46.0 -54.0	48.8 %
Content of Fe3O4	EMD	46.0 -51.0	48.6 %
Content of TiO2	EMD	<=3.0	2.6 %
pH (10 % Suspension)	ISO 787-9	3.0 -8.0	4.4
Particle Size (Laserbeam Diffraction) 80 % of particles between 10 -60 um	MALVERN	Conforms	Conforms
Median particle size (D50)	MALVERN	18.0 -25.0	19.6
Loss on Drying (2 hrs, 105 degrees C)	ASTM 1208-96	<=0.5	0.0

Microbial Purity

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 10g
Gram negative bacteria	Absent in 1g
Candida albicans	Absent in 1g

Heavy Metals

Modified CIPA/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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* Calculated by Difference