

CERTIFICATION OF ANALYSIS (Representative Sample)

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COLORONA BLUE COSMETIC PIGMENT

Product Code KD 202

Lot Number

Date of Manufacture Expiration Date:

ANALYTICAL DATA			SOP's	SPECS		RESULTS
Color and Appearance]	Merck KGaA	Conforms		Conforms
Content of Mica *]	Merck KGaA	62.0	-71.0	68.7 %
Content of TiO2]	Merck KGaA	23.0	-29.0	24.3 %
Content of Iron blue]	Merck KGaA	6.0	-9.0	7.0
Particle size distribution]	Laser diffraction	Conforms		Conforms
(80% within 10-60 μm)				10.0	25.0	21.7
Median particle size (D50]	Laser diffraction	18.0	-25.0	21.7μ
pH (10% aqueous suspension)]	ISO 787-9	4.0	-7.0	5.7
Loss on Drying(2 hrs. 105 degrees C)]	Merck KGaA	=1.0</td <td><!--= 1.0</td--></td>		= 1.0</td
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 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	

Nickel < 10 ppm Lead < 10 ppm Antimony < 1 ppm
Zinc < 50 ppm

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