



Certificate of Analysis (Representative Sample)

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Pennsylvania Green
COSMETIC PIGMENT

Product Code KL - 304

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	26.0 -41.0	35.9 %
Content of TiO2	Merck KGaA	50.0 -58.0	51.2 %
Content of Cr2O3	Merck KGaA	9.0 -16.0	12.9 %
Chromium (soluble in 2% NaOH extract)	Merck KGaA	Conforms	< 750 ppm as Cr2O3
pH (10% aqueous dispersion)	ISO 787-9	3.0 -6.0	3.3
Particle size distribution (80% within 10 - 60 µm)	Laser diffraction	Conforms	Conforms
Median particle size (D50)	Laser diffraction	18.0 -25.0	18.7
Loss on Drying (2 hrs, 105 degrees C)	Merck KGaA	< /=0.5	< /= 0.5 %

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
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