



TKB Trading, LLC

Certificate of Analysis (Representative Sample)

TKB TRADING, LLC
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**Colorona Dark Blue
 COSMETIC PIGMENT**

ANALYTICAL DATA

Color and Appearance
 Content of Mica *
 Content of TiO2
 Ferric Ferrocyanide
 Particle size distribution
 (80% within 10-60 µm)
 Median particle size (D50)
 pH (10 % Suspension)
 Loss on Drying (2 hrs, 105 degrees C)

SOP's

Merck KGaA
 Merck KGaA
 Merck KGaA
 Merck KGaA
 Laser diffraction
 Laser diffraction
 ISO 787-9
 Merck KGaA
 USP or EP or JP

SPECS

Conforms
 43.0 -57.0
 40.0 -48.0
 3.0 -9.0
 Conforms
 18.0 -25.0
 4.0 -7.0
 <=1.0

RESULTS

Conforms
 47.6 %
 46.0 %
 6.4 %
 Conforms
 22.6 µ
 4.3
 <= 1.0 %

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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