



TKB TRADING, LLC  
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## Certificate of Analysis (Representative Sample)

GOLD FINE  
 COSMETIC PIGMENT

Lot Number

Date of Manufacture

Expiration Date:

**ANALYTICAL DATA**

**SOP's**

**SPECS**

**RESULTS**

|   |                   |            |           |
|---|-------------------|------------|-----------|
| Color and Appearance                              | Merck KGaA        | Conforms   | Conforms  |
| Content of Mica * Content of TiO2                 | Merck KGaA        | 36.0 -52.0 | 41.8 %    |
| Content of Fe2O3                                  | Merck KGaA        | 42.0 -52.0 | 48.5 %    |
| pH (10 % Suspension)                              | Merck KGaA        | 6.0 -12.0  | 9.7 %     |
| Particle size distribution (80% within 5 - 25 um) | ISO 787-9         | 6.0 -11.0  | 8.0       |
| Median particle size (D50)                        | Laser diffraction | Conforms   | Conforms  |
| Loss on Drying (2 hrs, 105 degrees C)             | Laser diffraction | 7.0 -14.0  | 11.3 μ    |
|   | 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