



Certificate of Analysis (Representative Sample)

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Noble Silver Sparks

Product Code KP - 204

COSMETIC PIGMENT

Lot Number

Date of Manufacture

Expiration Date:

ANALYTICAL DATA

SOP's

SPECS

RESULTS

| | | | |
|---|-------------------|------------|-----------|
| Color and Appearance | Merck KGaA | | Conforms |
| Content of Calcium Aluminum Borosilicate * | Merck KGaA | 65.0 -84.0 | 76.5 % |
| Content of TiO2 | Merck KGaA | 5.0 -15.0 | 7.9 % |
| Content of SiO2 | Merck KGaA | 11.0 -19.0 | 15.0 |
| Content of SnO2 | Merck KGaA | </=1.0 | 0.6 % |
| Particle size distribution (80% within 20 - 200 µm) | Laser diffraction | | Conforms |
| Median particle size (D50) | Laser diffraction | 70.0 -90.0 | 80.8 µ |
| pH (10% aqueous suspension) | ISO 787-9 | 8.0 -11.0 | 10.2 |
| Loss on Drying (2 hrs, 105 degrees C) | Merck KGaA | </=1.0 | </= 1.0 % |

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 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 | 1ppm |

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