



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

**BLACKSTAR BLUE  
 COSMETIC PIGMENT**

Lot Number	Not available (data may vary slightly with different lots or batches)			
Date of Manufacture	Not available	Expiration Date:	Not available	

ANALYTICAL DATA	SOP's	SPECS	RESULTS
Color and Appearance	Merck Japan	Conforms	Conforms
Content of Mica *	Merck Japan	36.0 44.0	43.2 %
Content of Fe <sub>3</sub> O <sub>4</sub>	Merck Japan	56.0 64.0	56.8 %
Particle size distribution (80% within 10-60 μm)	Laser diffraction	Conforms	Conforms
Median particle size (D50)	Laser diffraction	18.0 25.0	20.7 μ
pH (10% aqueous suspension)	Merck Japan	5.0 9.0	7.3
Loss on Drying(2 hrs. 105 degrees C)	Merck Japan	< /=0.5	< /= 0.5 %
<b><u>Microbial Purity</u></b>	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

QC Specialist, Methods Development