

## **Certificate of Analysis** (Representative Sample Certificate)

TKB TRADING, LLC 1101 9th Avenue Oakland, CA 94606 Tel: 510-922-9027 www.tkbtrading.com

## COSMETIC PIGMENT

Product Name	VERDIGRIS GOLI	D		1	Issue Date:	N/A
Lot Number	Not available (data m	Not available (data may vary slightly with different lots or batches)				
Date of Manufacture	N/A			Expira	ation Date:	N/A
ANALYTICAL DATA		SOP's	SPEC	s	RESULTS	
Color and Appearance		Merck KGaA	Conforms		Conforms	
Content of Mica *		Merck KGaA	38.0	-57.0	49.8 %	
Content of TiO2		Merck KGaA	20.0	-30.0	23.8 %	
Content of Fe3O4		Merck KGaA	23.0	-32.0	26.4%	
Particle size distribution (80% within 10 - 60 µm)		Laser diffraction	Conforms		Conforms	
Median particle size (D50)		Laser diffraction	18.0	-25.0	21.8 μ	
pH (10% aqueous suspension	n)		ISO 787-9	8.0	-11.0	9.8
Loss on Drying (2 hrs, 105 degrees C)		Merck KGaA	=0.5</td <td>0.5 %</td>		0.5 %	
Microbial Purity		USP or EP or JP				
Total Viable Aerobic Count E. coli Pseudomonas aeruginosa Staphylococcus aureus Salmonella species Gram negative bacteria Candida albicans Heavy Metals			Modified CTFA/I	internal		< 100 CFU/g Absent in 1g Absent in 1g Absent in 1g Absent in 10g Absent in 1g Absent in 1g
Arsenic <21	opm	Barium	< 50 ppm	Cadmium	< 3 ppm	
Chromium < 10	0 ppm	Copper	< 50 ppm	Mercury	< 1 ppm	
Nickel < 10	ppm	Lead	< 10 ppm	Antimony	< 1 ppm	

This material does not contain organic colorants

< 50 **ppm** 

Zinc

The color additives in this material meet all applicable purity requirements of the FDA(21 - CFR), the E C and Japan for cosmetic use This document has been produced electronically and bears no signature \* Calculated by Difference

QC Specialist, Methods Development