MAKINGCOSMETICS

10800 231st Way NE
Redmond, WA 98053
Phone: 425-292-9502
makingcosmetics.com

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Mica Walnut Brown
INCI Name: Mica (CI 77019), Iron oxide (CI 77491), Iron oxide (CI 77499)
CAS Number: 12001-26-2, 1309-37-1, 1317-61-9
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 120 months from production date

Property	Specification	Analysis
Chemical Composition		
Mica %	59 - 71%	Pass
Iron (III) Oxide %	23 - 31%	Pass
Iron (II, III) Oxide %	5 - 11%	Pass
Coloristic Assessment (PERL/1213)		
Color Shade	Close to master	Pass
Luster	Close to master	Pass
Opacity	Close to master	Pass
Physical Properties		
TiO_2 Modification (ASTM D3720)	NA	Pass
Volatile Matter (ISO 787-2)	0.5% MAX	0.2%
Oil Absorption (ISO 787-5)	65 - 75 g/100g	Pass
pH Value (10% Aqueous Solution) (ISO 787-9)	4.0 - 8.0	6.3
Specific Gravity (IS 33 Part B)	3.1 ± 0.2	Pass
Apparent Density (ISO 787-11)	0.5 ± 0.1 g/cc	Pass

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Water Solubility (IS 3493)	0.5% MAX (practically insoluble)	Pass
Heat Stability (CPTL/301)	150°C	Pass
Resistance to Acids & Alkalis (CPTL/301)	Stable	Pass
Particle Size Distribution (10-60µm) (PERL/1020)	85% MIN	93.8%
Residue on Sieve (100 Mesh) (PERL/1216)	Nil	Pass
Heavy Metal Analysis (Acid extaction & atomic absorbtion)		
Antimony (Sb)	2 ppm MAX	<1 ppm
Arsenic (As)	3 ppm MAX	<1 ppm
Barium (Ba)	50 ppm MAX	1 ppm
Cadmium (Cd)	3 ppm MAX	<1 ppm
Chromium (Cr)	20 ppm MAX	3 ppm
Cobalt (Co)	20 ppm MAX	2 ppm
Copper (Cu)	50 ppm MAX	<1 ppm
Lead (Pb)	10 ppm MAX	5 ppm
Mercury (Hg)	1 ppm MAX	<1 ppm
Nickel (Ni)	30 ppm MAX	6 ppm
Selenium (Se)	50 ppm MAX	<1 ppm
Zinc (Zn)	50 ppm MAX	12 ppm
Microbial Analysis		
Total Aerobic Microbial Count (ISO 18415:2007)	100 CFU/g MAX	Pass
Yeast & Mold (ISO 16212:2008)	100 CFU/g MAX	Pass
Pathogens in 1g	Absent	Pass

The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions. This report is not to be signed. All data are as per our supplier.