



Mad Oils, Inc. d/b/a Mad Micas  
430 S. Congress Ave., #2  
Delray Beach, FL 33445  
madmicas.com

# CERTIFICATE OF ANALYSIS

Representative Sample Test Results

## Identification

Product identifier: Mad Micas Tempest  
Other name: Purple mica powder  
Supplier: Mad Oils, Inc. d/b/a Mad Micas  
430 S. Congress Ave., #2  
Delray Beach, FL 33445  
+1-561-845-0050  
Recommended use: Colorant

## Chemical Analysis

Ingredient	CAS #	Specs	Results
Mica	12001-26-2	43-47%	45.2%
Titanium dioxide	13463-67-7	52-56%	54.3%
Manganese violet	10101-66-3	0-1%	0.5%

## General Analysis

Characteristic	Specs	Results	Methodology
Particle size (80% within range)	10-60 $\mu\text{m}$	Conforms	Laser diffraction
Particle size D50	21-26 $\mu\text{m}$	23 $\mu\text{m}$	Laser diffraction
pH (4% H <sub>2</sub> O)	6-9	7.2	ISO787-9
Loss on drying (105° C)	$\leq 0.5\%$	$\leq 0.5\%$	ISO787-2

## Heavy Metals

Metal	Results	Metal	Results
Arsenic (As)	$\leq 2$ ppm	Mercury (Hg)	$\leq 1$ ppm
Barium (Ba)	$\leq 50$ ppm	Nickel (Ni)	$\leq 10$ ppm
Cadmium (Cd)	$\leq 3$ ppm	Lead (Pb)	$\leq 5$ ppm
Chromium (Cr)	$\leq 20$ ppm	Antimony (Sb)	$\leq 1$ ppm
Copper (Cu)	$\leq 50$ ppm	Zinc (Zn)	$\leq 50$ ppm

## Microbial Purity

Tested	Results
Total viable aerobic count	$< 100$ CFU/g
Ph.Eur.USP XXII	No pathogens

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