



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

# CERTIFICATE OF ANALYSIS

Composite Results of Tests of  
Representative Samples of Ingredients

## Identification

Product identifier: Mad Micas Nebula  
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 #       | Results |
|------------------|-------------|---------|
| Titanium dioxide | 13463-67-7  | 54.84%  |
| Mica             | 12001-26-2  | 44.39%  |
| Tin dioxide      | 18282-10-5  | .48%    |
| Manganese violet | 110101-66-3 | .22%    |
| Ultramarine blue | 57455-37-5  | .07%    |

## General Analysis

| Characteristic                   | Specs              | Results          | Methodology       |
|----------------------------------|--------------------|------------------|-------------------|
| Particle size (80% within range) | 5-60 $\mu\text{m}$ | Conforms         | Laser diffraction |
| Particle size D50                | 9-26 $\mu\text{m}$ | 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)     | $\leq 10$ ppm |
| Chromium (Cr) | $\leq 100$ 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 |

• This certificate is based on the test results of representative samples of the ingredients used to produce the product described herein as they are known to Mad Oils, Inc. d/b/a Mad Micas ("Mad Micas") at the time this data sheet was issued, when material is packaged in our facility. All information contained herein has been provided to Mad Micas by Mad



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- Revised January 2024