

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Mica Carmine Red  
**INCI Name:** Mica (CI 77019), titanium dioxide (CI 77891), carmine (CI 75470)  
**CAS Number:** 12001-26-2, 13463-67-7, 1390-65-4  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 60 months from production date

Property	Specification	Analysis
Assay (Mica) (In-house)	48.0-60.0%	55.1%
Assay (TiO <sub>2</sub> ) (In-house)	39.0-48.0%	43.7%
Assay (Carmine) (In-house)	1.0-4.0%	1.2%
Particle Size Distribution (Laser diffraction)	80% w/in range 10-60 µm	Pass
Particle Size (d50) (Laser diffraction)	18.0-25.0 µm	24.1 µm
Screening Test (In-house)	<0.150 mm	Conforms
pH Vaule (10% aqueous suspension) (ISO 787-9)	6.0-10.0	8.0
Loss on Drying (105 °C) (ISO 787-2)	≤0.8%	≤0.8%
Heavy Metals (As) (mod.PCPC/int.methods)	≤0.0002%	≤0.0002%
Heavy Metals (Ba) (mod.PCPC/int.methods)	≤0.0050%	≤0.0050%
Heavy Metals (Cd)	≤0.0003%	≤0.0003%

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(mod.PCPC/int.methods)		
Heavy Metals (Cr) (mod.PCPC/int.methods)	≤0.0100%	≤0.0100%
Heavy Metals (Cu) (mod.PCPC/int.methods)	≤0.0050%	≤0.0050%
Heavy Metals (Hg) (mod.PCPC/int.methods)	≤0.0001%	≤0.0001%
Heavy Metals (Ni) (mod.PCPC/int.methods)	≤0.0010%	≤0.0010%
Heavy Metals (Pb) (mod.PCPC/int.methods)	≤0.0010%	≤0.0010%
Heavy Metals (Sb) (mod.PCPC/int.methods)	≤0.0001%	≤0.0001%
Heavy Metals (Zn) (mod.PCPC/int.methods)	≤0.0050%	≤0.0050%
Visual & Colorimetric Evaluation (In-house)	Passes test	Conforms
Total Viable Aerobic Count (USP, Ph.Eur.)	≤100 CFU/g	≤1x10 <sup>2</sup> CFU/g
Gram Negative Bacteria (USP, Ph.Eur.)	Absent in 1g	Pass
E. coli (USP, Ph.Eur.)	Absent in 1g	Pass
Staphylococcus aureus (USP, Ph.Eur.)	Absent in 1g	Pass
Salmonella species (USP, Ph.Eur.)	Absent in 10g	Pass
Candida albicans (Method: USP, Ph.Eur.)	Absent in 1g	Pass

Color-Index (Mica): CI No. 77019, Color-Index (TiO<sub>2</sub>): CI No. 77891, Color-Index (Carmine): CI No. 75470  
 This article meets purity requirements in USA, Japan, and European Union for cosmetic ingredients.

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.

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