

## 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) (mod.PCPC/int.methods)	≤0.0003%	≤0.0003%

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

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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