

## Certificate of Analysis

Product Code: MMI-Mica Pigment - Shamrock 100F  
 Trade Name: Shamrock 100F  
 Supplier: Mineral Makeup Ingredients  
 Batch Code: 141017

Assay(INCI)	Cas. No.	Spec. Values	Batch Values	Method
Mica	12001-26-2	43-47%	45.10%	Manufacturer
Titanium Dioxide	13463-67-7	52-56%	54.30%	Manufacturer
Chromium Oxide Green	1308-38-9	0-1%	0.60%	Manufacturer
Parcle size (80% within the range 10-60µm) confirms laser diffracon	confirms laser diffracon	21-26µm	23µm	laser ISO787-9
Loss on drying (105°C)		≤0.5%	≤0.5%	ISO787-9
Heavy metals				
As		≤2 ppm	≤2 ppm	Manufacturer
Ba		≤50 ppm	≤50 ppm	Manufacturer
Cd		≤3 ppm	≤3 ppm	Manufacturer
Cr		≤20 ppm	≤20 ppm	Manufacturer
Cu		≤50 ppm	≤50 ppm	Manufacturer
Hg		≤1 ppm	≤1 ppm	Manufacturer
Ni		≤10 ppm	≤10 ppm	Manufacturer
Pb		≤5 ppm	≤5 ppm	Manufacturer
Sb		≤1 ppm	≤1 ppm	Manufacturer
Zn		≤50 ppm	≤50 ppm	Manufacturer
Visual and colorimetric evaluaon		confirms	confirms	Manufacturer
Microbiological purity				
Microorganisms Ph.Eur.USP XXII)		100CFU/g No Pathogens	100CFU/g No Pathogens	Manufacturer Manufacturer

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