

## Certificate of Analysis

Product Code: MMI-Mica Pigment - Black Pearl 110A

Trade Name: Black Pearl 110A

Supplier: Mineral Makeup Ingredients

Batch Code: 150307

Assay(INCI)	Cas. No.	Spec. Values	Batch Values	Method
Mica	12001-26-2	68-72%	71.30%	Manufacturer
Titanium Dioxide	13463-67-7	26-30%	28.40%	Manufacturer
Iron Oxide	1309-37-1	0-1%	0.30%	Manufacturer
Parcle size (80% within the range 10-60µm)	confirms	confirms laser diffrac	Parcle size (d50) 21-26µm	23µm laser diffrac
pH-value (4% H2O)	6-9	7.2	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		100CFU/g	100CFU/g	Manufacturer
Ph.Eur.USP XXII)		No Pathogens	No Pathogens	Manufacturer

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