

## Certificate of Analysis

Product Code: MMI-Mica Pigment - Ultra Sparkle Bronze 20H

Trade Name: Ultra Sparkle Bronze 20H

Supplier: Mineral Makeup Ingredients

Batch No.: #180711

Assay(INCI)	Cas No.	Spec.Values	Batch Values	Method
Fluorphlogopite	12003-38-2	88-95%	90.60%	Manufacturer
Iron oxide	1309-37-1	5-12%	9.40%	Manufacturer
Particle size(80% within the range 200-700µm)		confirms	confirms	laser diffraction
Particle size(d50)		350-500µm	425µm	laser diffraction
pH-value(4% H2O) Loss on drying(105°C) Heavy metals		6-9	7.2	ISO787-9
		≤0.5%	≤0.5%	ISO787-9
As		≤2 ppm	≤2 ppm	Manufacturer
Ba		≤50 ppm	≤50 ppm	Manufacturer
Cd		≤3 ppm	≤3 ppm	Manufacturer
Cr		≤100 ppm	≤100 ppm	Manufacturer
Cu		≤50 ppm	≤50 ppm	Manufacturer
Hg		≤1 ppm	≤1 ppm	Manufacturer
Ni		≤10 ppm	≤10 ppm	Manufacturer
Pb		≤10 ppm	≤10ppm	Manufacturer
Sb		≤1 ppm	≤1 ppm	Manufacturer
Zn		≤50 ppm	≤50 ppm	Manufacturer
Visual and colorimetric evaluation		confirms	confirms	Manufacturer
Microbiological purity				
Microorganisms		<100CFU/g	<100CFU/g	Manufacturer
Ph.Eur.USP XXII		No Pathogens	No Pathogens	Manufacturer

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--End of COA--