

Certificate of Analysis

HILITE GOLD

	Spec. Values		Batch Values		Method
Assay (Mica)	33.0 - 47.0	%	40.4	%	In-house
Assay (SiO ₂)	10.0 - 14.0	%	12.2	%	In-house
Assay (TiO ₂)	43.0 - 53.0	%	47.4	%	In-house
Particle Size Distribution (80% within the range 10.0 - 60.0 µm)	conforms		passes test		laser diffraction
Particle Size (d50)	18.0 - 25.0	µm	23.1	µm	laser diffraction
Screening Test (< 0.150 mm)	conforms		conforms		In-house
pH (10% aqueous suspension)	8.0 - 11.0		9.2		ISO 787-9
Loss on Drying (105°C)	≤ 0.5	%	≤ 0.5	%	ISO 787-2
Heavy metals (As)	≤ 0.0002	%	≤ 0.0002	%	mod.PCPC/int.methods
Heavy metals (Ba)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Heavy metals (Cd)	≤ 0.0003	%	≤ 0.0003	%	mod.PCPC/int.methods
Heavy metals (Cr)	≤ 0.0100	%	≤ 0.0100	%	mod.PCPC/int.methods
Heavy metals (Cu)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Heavy metals (Hg)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.methods
Heavy metals (Ni)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.methods
Heavy metals (Pb)	≤ 0.0010	%	≤ 0.0010	%	mod.PCPC/int.methods
Heavy metals (Sb)	≤ 0.0001	%	≤ 0.0001	%	mod.PCPC/int.methods
Heavy metals (Zn)	≤ 0.0050	%	≤ 0.0050	%	mod.PCPC/int.methods
Visual and Colorimetric Evaluation	conforms		conforms		In-house
Microbial Purity (Total Viable Aerobic Count)	≤ 1•10 ²	CFU/g	≤ 1•10 ²	CFU/g	USP, Ph.Eur.
Gram negative bacteria	absent in 1 g		passes test		USP, Ph.Eur.
E.coli	absent in 1 g		passes test		USP, Ph.Eur.
Pseudomonas aeruginosa	absent in 1 g		passes test		USP, Ph.Eur.
Staphylococcus aureus	absent in 1 g		passes test		USP, Ph.Eur.
Salmonella species	absent in 10 g		passes test		USP, Ph.Eur.
Candida albicans	absent in 1 g		passes test		USP, Ph.Eur.

Color-Index (Mica): C.I.No. 77019 , Color-Index (TiO₂): C.I.No. 77891

This article meets the purity requirements in USA, Japan and European Union for cosmetic ingredients.

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