

Certificate of analysis

(Representative Sample Certificate)



Product identifier: **BLUE SPARKS**

	Spec. Values		Batch Values		Method
Assay (Calcium-Aluminium Borosilicate)	59.0 - 77.0	%	71.1	%	In-house
Assay (TiO ₂)	22.0 - 32.0	%	24.8	%	In-house
Assay (SiO ₂)	1.0 - 8.0	%	3.5	%	In-house
Assay (SnO ₂)	≤ 1.0	%	0.6	%	In-house
Loss on Drying (105°C)	≤ 1.0	%	≤ 1.0	%	ISO 787-2
pH (10% aqueous suspension)	8.0 - 11.0		10.7		ISO 787-9
Particle Size Distribution (80% within the range 20.0-200.0 µm)	conforms		passes test		laser diffraction
Particle Size (d50)	75.0 - 95.0	µm	80.2	µm	laser diffraction
Visual and Colorimetric Evaluation	conforms		passes test		In-house
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
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 (TiO₂): C.I.No. 77891, Color-Index (SnO₂): C.I.No. 77861

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

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