

Certificate of analysis

(Representative Sample Certificate)



Product identifier: BLACKSTAR RED

| | Spec. values | | Batch values | | Method |
|-----------------------------------------------|-------------------------------------|-------|--------------|-------|----------------------|
| Assay (Fe ₃ O ₄) | 48.0- 56.0 | % | 52.1 | % | Inhouse |
| Assay (Mica) | 44.0- 52.0 | % | 47.9 | % | Inhouse |
| Particle Size Distribution | 80% within the range 10.0-60.0µm | | conforms | | Laser Diffraction |
| Particle Size (d ₅₀) | 18.0- 25.0 | µm | 20.9 | µm | Laser Diffraction |
| Screening Test (<0.150 mm) | conforms | | conforms | | Inhouse |
| pH (10% aqueous suspension) | 6.0- 10.0 | | 8.7 | | ISO 787-9 |
| Loss on Drying (105°C) | ≤ 0.5 | % | ≤ 0.1 | % | 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 | % | ≤ 0.0010 | % | 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 | | Inhouse |
| Microbial Purity (Total Viable Aerobic Count) | ≤ 100 | CFU/g | ≤ 100 | CFU/g | USP, Ph.Eur., JP |
| Gram negative bacteria | absent in 1g | | passes test | | USP, Ph.Eur., JP |
| E.coli | absent in 1g | | passes test | | USP, Ph.Eur., JP |
| Pseudomonas aeruginosa | absent in 1g | | passes test | | USP, Ph.Eur., JP |
| Staphylococcus aureus | absent in 1g | | passes test | | USP, Ph.Eur., JP |
| Salmonella species | absent in 10g | | passes test | | USP, Ph.Eur., JP |
| Candida albicans | absent in 1g | | passes test | | USP, Ph.Eur., JP |

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

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