Leucidal® SF Max Powder
Formulation Guidance

Leucidal® SF Max Powder
Code: M15031
INCI Name: Lactobacillus Ferment
CAS#: 1686112-36-6 (or)
68333-16-4
EINECS#: N/A (or) N/A
Suggested Use Levels: 0.50 - 1.00%
Solubility: 100% Water Soluble
pH Stability: 3 - 7

Manufacturing Procedure (Laboratory Scale)

Emulsion Systems:

1. Incorporate Leucidal® SF Max Powder into the water phase.

Surfactant Systems:

1. Leucidal® SF Max Powder has excellent compatibility in cationic, amphoteric, and nonionic surfactant systems when added into the water phase.
2. In anionic surfactant systems, add Leucidal® SF Max Powder after the anionic surfactant. Incorporate a thickening agent if a loss in viscosity is observed.

Gel/Aqueous Systems:

1. Leucidal® SF Max Powder has excellent compatibility in cationic and nonionic gel/aqueous systems when added into the water phase.
2. The cationic nature of Leucidal® SF Max Powder makes the main formulating concern incompatibility with high anionic thickeners. In anionic systems, a change in order of addition may be best to resolve incompatibility. See Formulation Advice below for more information on specific anionic thickeners.



Application Ideas:

1. Leucidal® SF Max Powder is suitable for O/W emulsions, W/O emulsions, and aqueous systems.

Formulation Advice:

Use Level	Our best recommendation is to start with 1.0% Leucidal® SF Max Powder if no other antimicrobial active or preservative system is present.
Overcoming Incompatibilities	When using Xanthan Gum: • Charge water, add Leucidal® SF Max Powder into water and allow to mix until completely dissolved. • Pre-disperse xanthan gum in a polyol and add. When using Hyaluronic Acid (Low/High MW): • Charge water, add Leucidal® SF Max Powder and allow to mix until completely dissolved. • Under high shear mixing, add hyaluronic acid. When using Carbomer systems: • Recommended use level for a gel is 0.5 - 1.0% of carbomer with 0.50 - 1.00% % Leucidal® SF Max Powder respectively. • Add at end of processing when carbomer has been neutralized. Decrease concentration of Leucidal® Liquid SF Max Powder to improve clarity. Solubilizer does not help. • Increasing pH to 6.0 - 7.0 also aids in compatibility.
Improve Clarity	When a lipophilic peptide such as Leucidal® SF Max Powder interacts with an anionic material, haze may be observed. Add a solubilizer to improve clarity.

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