



Product Data Sheet

CINAGOS GLP

INCI: Water, Glycolipids

Description

- A multifunctional naturally derived biosurfactant with antibacterial properties. Reduce sebum secretion, effectively kill *Propionibacterium acnes*, and achieve the effect of removing acne.
- Product is produced through fermentation processes, with an HLB value ranging from 12 to 15, making it suitable as an emulsifier.
- Possesses both acidic and lactone structures, and the ratio of acidic to lactone forms in our product is approximately 4:6. The lactone form exhibits higher physiological immune activity and bacteriostatic properties.
- Suitable for oil-soluble systems.

Test	Specification	Unit
Active Ingredient Content	≥ 45	%
pH	5.0 – 9.0	

Only the data displayed in this document shall constitute the agreed contractual quality of the product. Data reported in other product related documents (e.g. MSDS, Marketing brochures etc.) are not intended to define the quality of the product. Conversely, Product Specification does not address product communication, human and/or environmental safety or socio-economical characteristics.

Delivery forms

- 25kg can, 25 cans in a pallet

Physical form at 25°C

- At room temperature, the product is in liquid form

Storage conditions

- Keep containers tightly closed in a dry, cool, and well-ventilated place, and keep away from heat sources, sparks, open fires and hot surfaces.

Shelf life

- 24 months

Application and Recommended Dosage

- Facial Mask Products: 2-5%
- Cream Products: 1-5%
- Repair and anti-PM2.5 Products: 3-8%

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Natural Safety and Mild Antibacterial Properties

CINAGOS GLP retains its antibacterial efficacy against *Escherichia coli*, *Bacillus* species, and other bacteria even after treatment at 100°C, 110°C, or 120°C.

At a concentration of 1 mg/mL, CINAGOS GLP achieves an 87% against *Escherichia coli* and 91% against *Bacillus subtilis*, and temperature changes do not affect its emulsifying properties. When the concentration reaches 30 µg/mL, it can completely kill pathogenic *Escherichia coli*. For some Gram-negative bacteria that cause urinary system infections, gastrointestinal infections, and *Streptococcus* that causes neonatal meningitis, the lactone form of CINAGOS GLP exhibits excellent inhibitory effects.

When the CINAGOS GLP solution reaches 30 µg/mL, the lethality rate against pathogenic Gram-negative bacteria can reach 100%. CINAGOS GLP can effectively reduce the mortality rate of animals infected with bacteria, but this has not been correspondingly confirmed in vitro antibacterial tests, suggesting that CINAGOS GLP can be used as an adjuvant to inhibit bacterial proliferation.

CINAGOS GLP has good inhibitory effects on *Staphylococcus aureus* and *Bacillus subtilis*, possibly due to its damaging effects on bacterial cell walls and membranes. When the mass concentration of CINAGOS GLP in hand sanitizer reaches 6 g/L, it can completely kill *Staphylococcus aureus*, while the disinfectant effect of the control group containing only alcohol is significantly weaker than that of the test group.

Therefore, CINAGOS GLP can be added to medical disinfectants to enhance their bacterial inhibition capabilities. CINAGOS GLP has a broad-spectrum antibacterial effect and is not irritating to human skin. At a concentration of 5%, it can disrupt biofilm structures and inhibit the proliferation of various bacteria, including *Bacillus* BBK006 and *Staphylococcus* ATCC9144. Thus, CINAGOS GLP can be added as an adjuvant to antibacterial drugs.

Microbial Flora	Microorganism	Minimum Inhibitory Concentration(MIC)
Skin	<i>Propionibacterium acnes</i>	0.05%
Underarm	<i>Corynebacterium xerosis</i>	0.2%

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