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Defense · Anti-Inflammation · Repair: Triple Bioactive Protection Against Photoaging

Bloomage Biotechnology Corporation Limited

www.bloomagebioactive.com

PRODUCT/SERVICE BACKGROUND INFORMATION

Traditional sun care solutions focus primarily on UV blocking. Photodamage, however, is multidimensional: it weakens the skin's protective barrier, triggers UV-induced inflammation and drives cumulative photoaging. Skin that has undergone light-based cosmetic procedures is left fragile and in need of repair. Sodium Surfactin, Schizophyllan and PDRN work synergistically to build a complete photoprotection cascade — defense, anti-inflammation and repair.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

We introduce an integrated, full-cycle biological defense concept against UV-related skin damage, powered by three bio-derived functional ingredients. Bloomsurfact™ Sodium Surfactin, a biosurfactant, optimizes the dispersion of TiO_2 and ZnO, boosting in-vitro SPF while reducing whitening and stickiness. Bioyouth™-SPG (Schizophyllan) modulates cutaneous immune responses to relieve UV-induced erythema. Biobloom™ Lifemagic SDR (PDRN) enhances fibroblast activity and collagen synthesis to repair the barrier and counter photoaging in photodamaged, fragile skin — including skin recovering from light-based cosmetic treatments — rebuilding its resilience to UV stress.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

This solution overcomes the single-function limitation of conventional sun care ingredients. Sodium Surfactin enhances the efficiency of physical sunscreens; Schizophyllan targets underlying photo-inflammation rather than merely providing superficial, temporary soothing; and PDRN extends sun care into regenerative care for UV-weakened skin. Formulators can therefore create versatile products spanning daily sun protection, after-sun soothing and repair-oriented care for UV-vulnerable skin. The approach enables mild, bio-based formulations for holistic UV damage management, meeting consumer demand for comprehensive skin resilience against photoaging.