



### Introduction to the Prophiotics' Microbiome Balancer

The Prophiotics **Skin Microbiome Balancer** which is the result of nine years of research by our team is an innovative skincare product developed to address acne-prone skin using advanced bacteriophage technology. Unlike other products, our Balancer targets *Cutibacterium acnes* (*C. acnes*), the primary bacteria associated with acne, without disturbing the skin's delicate microbiome. This focused approach minimizes side effects, making the Balancer a unique approach designed for safe and effective skincare solution with lasting effect.

### What Are Bacteriophages?

Bacteriophages, or simply "phages," are viruses that exist in nature and are highly specialized to infect and destroy only bacterial cells, leaving human cells completely unaffected. Each bacteriophage is designed by nature to target a specific type of bacteria, making them extremely precise tools for bacterial control. Unlike antibiotics, which indiscriminately kill a wide range of bacteria—both harmful and beneficial—bacteriophages offer a targeted approach. This selectivity allows phages to preserve the delicate balance of the skin's microbiome by leaving beneficial bacteria intact.

Our carefully chosen phages specifically target *C. acnes*, the bacteria primarily responsible for acne-related inflammation. This precision means that our Balancer treatment is both safe and gentle on the skin, effectively reducing inflammation caused by acne without disrupting the natural microbiome. By selectively addressing only the problematic bacteria, our phage-based approach supports a balanced and healthy skin environment.

### How the Balancer Works

Overgrowth of *C. acnes* is often associated with skin inflammation, which can lead to acne. By selectively reducing *C. acnes* populations, the Balancer helps decrease skin inflammation while supporting a balanced microbiome. Unlike other products that disrupt the entire microbiome, the Balancer only targets unwanted bacteria, allowing beneficial skin flora to thrive.

## **Ingredient Transparency and Minimalism**

Prophiotics is proud of its commitment to transparency and simplicity. The Balancer contains a small, carefully selected list of dermatologist-approved, natural ingredients, ensuring both efficacy and safety. This streamlined formula contrasts with competitors' often lengthy ingredient lists, which can come with unwanted side effects. By choosing each ingredient with a specific benefit, Prophiotics delivers a product that supports skin health naturally and effectively.

- Phage: This is the main ingredient of our microbiota balancer. This helps kill the bad bacteria while keeping the good bacteria on your face intact.
- Salicylic Acid: Helps exfoliate the skin and keep your pores open for the phages to properly do their job!
- Xanthan Gum: This ingredient is so safe that people use it in cooking. It's used at a very low concentration as a thickening agent, so the product doesn't leak all over your face.
- Provitamin B5: Some studies have shown that vitamin B5 works as a moisturizer on the skin and enhances the healing process of skin wounds.
- Allantoin: Helps in promoting cell regeneration, calming irritation, and enhancing overall skin smoothness and texture.
- Glycerol Caprylate: Helps retain moisture and keeps the product stable. It also helps blend ingredients together and prevents germs from growing in the product, so it lasts longer on your shelf. This is a safe and natural plant-based ingredient.
- Retinol: A potent derivative of vitamin A, is celebrated in skincare for promoting skin renewal, reducing fine lines, and enhancing collagen production for a smoother complexion. In acne treatment, it regulates skin cell turnover, prevents pore clogging, and is highly effective in reducing lesions, making it a valuable asset for clearer, healthier skin.
- Cosmetic-grade Propylene Glycol: This serves as a humectant that traps moisture and leaves your skin hydrated without the oily feeling.
- Phenethyl Alcohol: Regulation requires us to have a preservative in our product to prevent growth of unwanted organisms. So, we picked a natural one that is 100% derived from plants. You can also find this in essential oils. If you smell flowers in the product, it's probably from this ingredient.



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