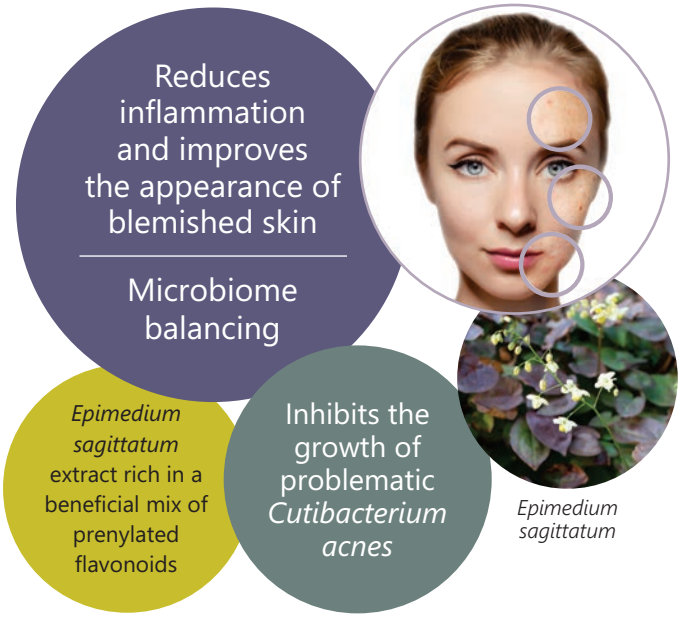
Microbiome Balancing for Blemished Skin



Grandiciin®



Grandiciin® is an anti-blemish ingredient that limits the burden of biofilm-resident *Cutibacterium acnes* and prevents tissue-damaging inflammation in blemish-prone skin. An *Epimedium sagittatum* extract rich in a beneficial mix of prenylated flavonoids, Grandiciin delivers a potent combination of microbiome-balancing, anti-inflammatory, and antioxidant activities to the skin.

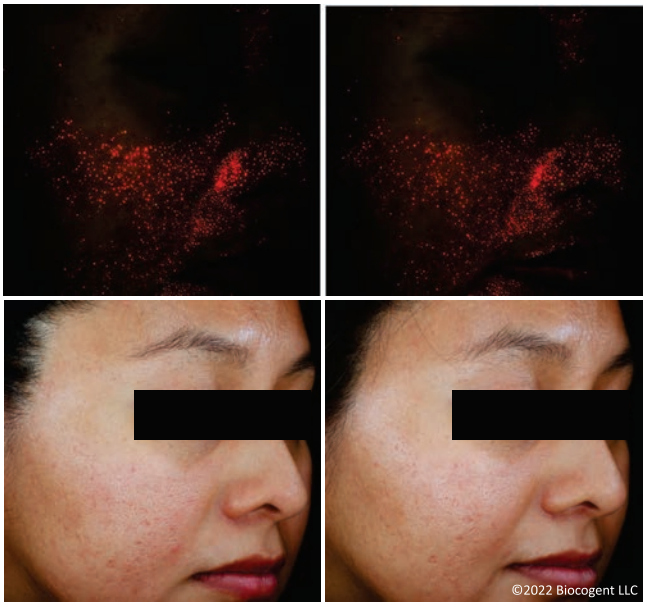
Virulent biofilm-producing *C. acnes* strains are more prevalent in blemished skin, driving comedone formation, increasing inflammatory tissue damage, and decreasing antibiotic efficacy in routine treatment. Grandiciin provides anti-biofilm activity to mitigate all of these pathogenic effects. At the same time, Grandiciin directly targets harmful inflammation by reducing six pro-inflammatory cytokines and inhibiting two key enzymes that generate inflammatory-driving eicosanoids within skin cells. Additionally, Grandiciin also modulates the expression of 11 skin-relevant genes, including the downregulation of four collagen-degrading MMP genes to help protect against tissue damage and scarring in severely blemished skin.

In a four-week clinical trial, Grandiciin diminished *C. acnes*-associated coproporphyrin III on the skin by 36% while reducing sebum production by over 25% in just two weeks. With twice-daily use, Grandiciin visibly reduced redness and inflammation to remarkably improve the appearance of blemished skin.

Applications

- Formulas to address blemished skin in young and adult consumers
- Clay masks and other skincare products targeting oily skin
- Soothing and calming products for damaged skin
- Spot treatment for blemishes
- Face and body products

Grandiciin®
Reduction of *C. acnes* burden & associated blemishes
Participant #1086

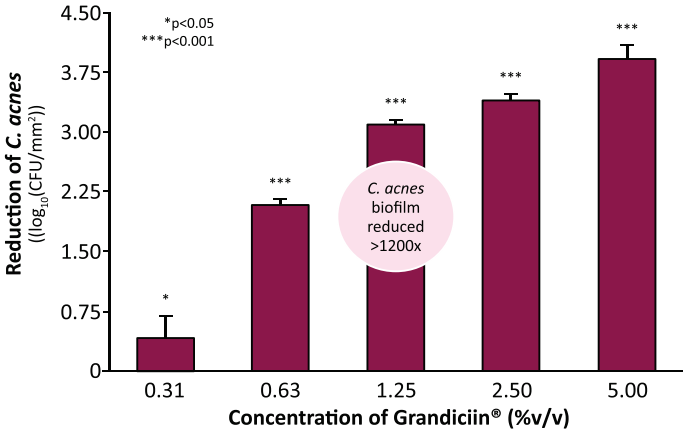


Baseline | 4 weeks

Grandiciin reduces *C. acnes* burden on the skin (red fluorescence) while also remarkably diminishing the appearance of blemishes, redness, and other signs of inflammation after four weeks of twice-daily application.

Grandiciin®
Product ID – R10124
Suggested Use Level – 0.5%-2.5%
Propanediol (and) *Epimedium Sagittatum* Leaf/Stem Extract

Grandiciin®
Reduction of *C. acnes* biofilm



Over 1200x reduction of problematic biofilm-resident *C. acnes* with the application of 1.25% Grandiciin®

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