

Microbiome Balancing for Blemished Skin



Grandiciin®



Skin health and wellness through microbiome-balancing to maintain skin homeostasis

Epimedium sagittatum

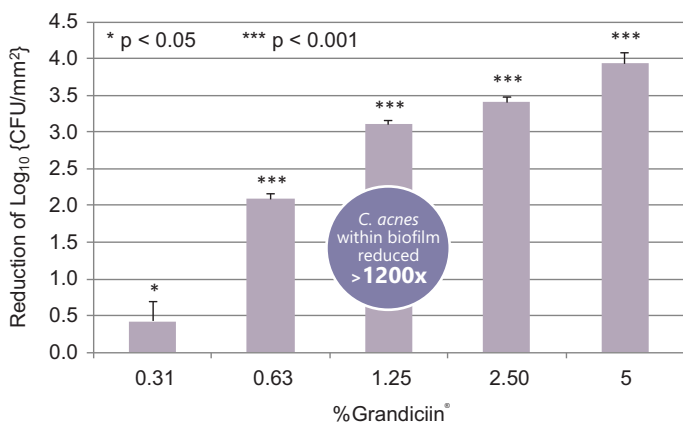
Grandiciin® is an anti-blemish ingredient that limits the burden of biofilm-resident *C. acnes* and prevents tissue-damaging inflammation in blemish-prone skin. Grandiciin® activity is attributable to the efficacious mix of prenylated flavonoids found in *Epimedium sagittatum*, the botanical source of the *Herba Epimedii* preparations of Traditional Chinese medicine. Virulent *C. acnes* strains are more prevalent in acne vulgaris and the biofilm they produce enhances comedone formation, increases inflammatory tissue damage, and decreases antibiotic efficacy in routine treatment. The anti-biofilm activity of Grandiciin® helps to mitigate all of these pathogenic effects. In addition, Grandiciin® directly counters inflammation, thereby providing an extra layer of protection against tissue damage and scarring in severely blemished skin.

Applications

- Formulas to address mild-to-moderate acne in young and adult consumers (maskne)
- Clay masks and other skin care products targeting oily skin
- Soothing and calming products for damaged skin
- Spot treatment for blemishes
- Face and body products

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

Reduction of Biofilm-Resident *C. acnes* by Grandiciin®



Greater than 1200x reduction of *c. acnes* population within the biofilm was observed using only 1.25% Grandiciin®, with statistically significant reduction still observed at concentrations lower than recommended use levels.

Biofilm Elimination by Grandiciin®

