

- Resveratrol, an antioxidant with antimicrobial properties, may be a viable treatment for acne vulgaris.
- In this *in vitro* study, colony forming unit assays together with transmission electron microscopy using *P. acnes* treated with resveratrol or benzoyl peroxide were used to assess antibacterial effects.
- Resveratrol had a sustained antibacterial activity against *Propionibacterium acnes*, and benzoyl peroxide had short-term bactericidal activity against *P. acnes* that could be effectively combined with resveratrol.
- Electron microscopy revealed that resveratrol alters the membrane structure of *P. acnes*.
- Resveratrol was significantly less cytotoxic to keratinocytes and monocytes than benzoyl peroxide.

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