



MacDerma™ MA

Anti-Acne
Anti-Bacterial
Reduced Photosensitivity

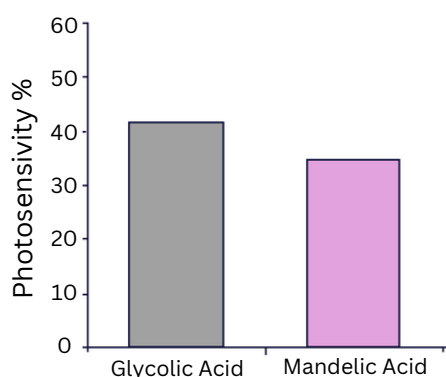
McKinley
resources, inc.

MacDerma™ MA

MacDerma™ MA (DL-Mandelic Acid) is an alpha hydroxyl acid (AHA). Alpha hydroxy acids speed up the cellular turnover rate, ridding the skin of dead skin cells that enhance the natural creases in skin and dull the complexion. MacDerma™ MA is the largest aromatic AHA. Since it has a large molecular size it is less of an irritant, making it even more popular than glycolic acid in skin care. It is suitable for all skin types and complexions.

EFFICACY TESTING

Effect of Mandelic Acid on Skin Photosensitivity¹

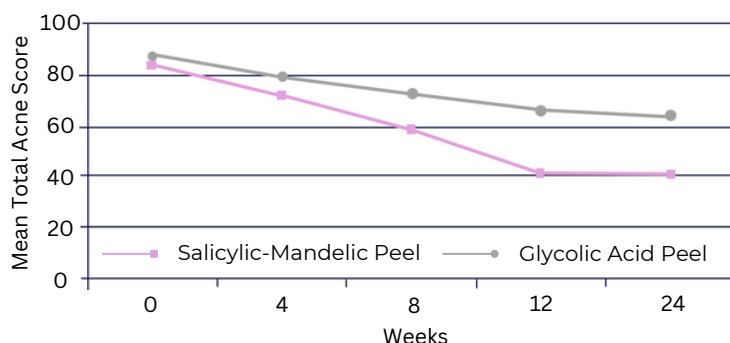


Twenty volunteers, ages 25-35 were treated with 10% acids for four weeks and exposed to UVB irradiation. Percent photosensitivity was calculated from the erythema index

RESULT

Mandelic Acid induces less photosensitivity than glycolic acid

In Vivo testing of effect of Mandelic Acid on Acne²



Twenty-two subjects received 35% glycolic acid peels or 20% salicylic-10% mandelic acid peels every 2 weeks

RESULT

The total acne score improved 52.3% in the salicylic-mandelic peel group vs 27.3% in the glycolic acid peel group (P<0.001)

REFERENCES:

- Carmelo Puglia, et al. "Comparative in vivo study of efficacy and tolerance of exfoliating agents using reflectance spectrophotometric methods." *Journal Of Cosmetic Science* 61.3 (2010): 247-258, MEDLINE, EBSCO
- Garg, Vijay Kumar, Surbhi Sinha, and Rashmi Sarkar. "Glycolic acid peels versus salicylic-mandelic acid peels in active acne vulgaris and post-acne scarring and hyperpigmentation: a comparative study." *Dermatologic Surgery: Official Publication for American Society for Dermatologic Surgery [Et Al.]* 35.1 (2009): 59-65. Illustration, MEDLINE, EBSCO

TYPICAL PROPERTIES

TEST	SPECIFICATION
Appearance	White crystalline powder
Assay	≥ 99%
Melting Point	117 - 121°C

BENEFITS & FEATURES

- Anti-Acne
- Anti-Bacterial
- Reduced Photosensitivity
- Exfoliant

FORMULATION GUIDELINES

SOLUBILITY:

Soluble in water and ether

RECOMMENDED USE LEVEL:

4.0% - 10.0%



APPLICATIONS

Chemical Peels
Face Washes
Cleaners

Moisturizers
Eye Lift Creams