



# Macamin™ NC

Skin Lightening  
Anti-Wrinkle  
Anti-Inflammatory

**McKinley**  
resources, inc.

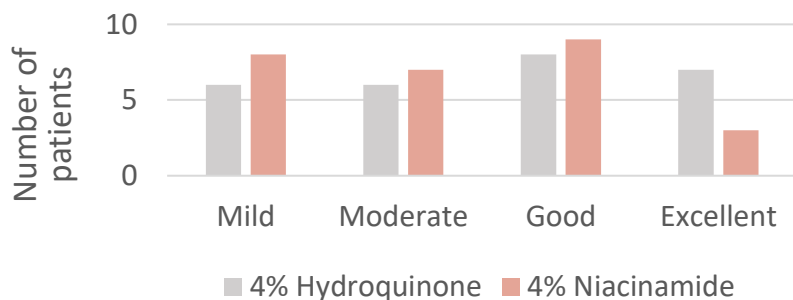


# Macamin™ NC

Macamin™ NC (Niacinamide) is vitamin B3, an essential nutrient. It provides both nutritional and topical benefits. As a skin care active, niacinamide can improve the appearance of hyperpigmented skin, reduce redness, fine lines and wrinkles, smooth skin texture and enhance skin barrier properties.

## EFFICACY TESTING

**Niacinamide effectively reduces appearance of melasma, comparable to hydroquinone<sup>1</sup>**



**Figure 1.** Physicians Global Assessment of melasma improvement

Niacinamide appears to be a suitable alternative for treatment of melasma without the undesirable side effects of hydroquinone.

**Five percent niacinamide reduces hyperpigmentation, fine lines and wrinkles and skin yellowing<sup>2</sup>**

**Five percent niacinamide gel is as effective as 2% clindamycin gel for treatment of acne vulgaris.<sup>3</sup> Moreover, use of clindamycin may increase risk of development of antibiotic resistance whereas niacinamide does not.**

## REFERENCES:

1. Navarrette-Solis J, Castanedo-Cázares JP, Torres-Álvarez B, et al. A double-blind, randomized clinical trial of niacinamide 4% versus hydroquinone 4% in the treatment of melasma. *Dermatol. Res. Pract.* 2011;2011: 379173. doi:10.1155/2011/379173
2. Bissett DL, Miyamoto K, Sun P, Li J, Berge CA. Topical niacinamide reduces yellowing, wrinkling, red blotchiness, and hyperpigmented spots in aging facial skin. *Int J Cosmet Sci.* 2004;26(5):231-238. doi:10.1111/j.1467-2494.2004.00228.x
3. Shahmoradi Z, Iraj F, Siadat AH, Ghorbaini A. Comparison of topical 5% nicotinamid gel versus 2% clindamycin gel in the treatment of the mild-moderate acne vulgaris: A double-blinded randomized clinical trial. *J Res Med Sci.* 2013;18(2):115-117.

## TYPICAL PROPERTIES

TEST	SPECIFICATION
Appearance	White crystalline powder
Assay	98.5 - 101.5%
Melting range	128 - 131°C

## BENEFITS & FEATURES

- Skin Lightening
- Anti-Wrinkle
- Pore size reduction
- Anti-Inflammatory
- Anti-Acne
- Skin Barrier Improvement

## FORMULATION GUIDELINES

### SOLUBILITY:

Water soluble

### STABILITY:

Optimal pH = 6

### RECOMMENDED USE LEVEL: 4-5%



## APPLICATIONS

Serums	Creams
Masks	Moisturizers
Facial cleansers	Conditioners
Lotions	Toners
Astringents	Foundations