



Macamin™ RL

Anti-Aging
Wrinkle Reduction
Increases Collagen Production

McKinley
resources, inc

Macamin™ RL

Macamin™ RL is retinol and comes in three different forms: a pure crystalline form, a water miscible form, and an oil form - both liquid forms are stabilized with DL Alpha Tocopherol.

Retinol is a type of retinoid found in Vitamin A and when used in skin care formulations helps accelerate skin renewal, enhances collagen production, and reduces the appearance of wrinkles, uneven texture, and age spots.

EFFICACY TESTING

Reduction of Fine Wrinkles

Forty-one women with healthy, mature skin (ages 35-55) applied 0.1% retinol formulation to full face every other day for 12 weeks. Facial wrinkle analysis was conducted with full face images every 4 weeks.

Effect of Topical Retinol Application on Fine Wrinkles

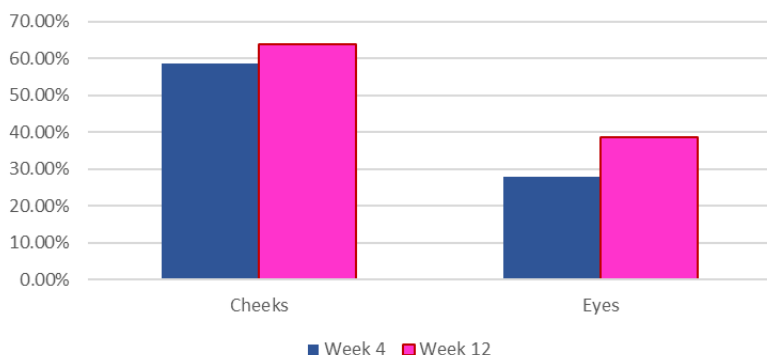


Figure 1. Representative data of 41 volunteers

Wrinkles decreased almost 59% around the cheeks by week 4, and almost 65% by week 12. Wrinkles decreased almost 28% around the eyes by week 4 and almost 40% by week 12.

REFERENCES:

Kong, Rong, Et. AL A Comparative Study of the Effects of Retinol and Retinoic Acid on Histological, Molecular, and Clinical Properties of Human Skin. J Cosmet. Dermatol. 2015; 15: 49-57.

TYPICAL PROPERTIES

TEST	SPECIFICATION
Appearance	Macamin™ RL (yellow, crystalline powder)
	Macamin™ RL50DE (oily, yellow liquid)
	Macamin™ RL50WME (oily, yellow liquid)
Concentration	Macamin™ RL Assay min 3.16 mlU/g
	Macamin™ RL50DE 45.0 - 55.0%
	Macamin™ RL50WME 45.0 - 55.0%

BENEFITS & FEATURES

- Anti-Aging
- Wrinkle Reduction
- Increases Collagen Production

FORMULATION GUIDELINES

SOLUBILITY:

Macamin™ RL is soluble in alcohol

Macamin™ RL50DE is oil-soluble

Macamin™ RL50WME is water-dispersible

STABILITY:

Stable at room temperature

RECOMMENDED USE LEVEL: 0.01-0.30%



APPLICATIONS

- | | |
|-------------|------------------|
| Serum | Eye Cream |
| Skin Creams | Moisturizers |
| Eye Stick | Facial Cleansers |