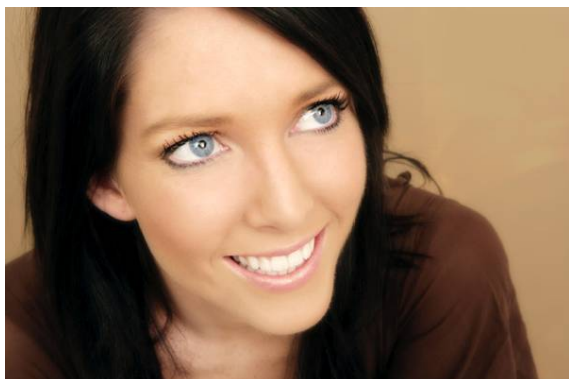


# Granactive AR-1423

## Anti-Redness Peptide Matrix

*Soothing Vibrant Skin Toning Effects*



### Tetrapeptide-14 Delivery Matrix

**Granactive AR-1423** is a unique delivery matrix which combines a redness diminishing peptide with the anti-oxidant properties of tea, the calming properties of boswellia serrata and the soothing quality of honey. **Granactive AR-1423** contains **Tetrapeptide-14**, a specific peptide sequence that can be used in cosmetic treatments to alleviate the redness associated with rosacea or mild sun exposure. It acts by down regulating interleukin-6 (IL-6) to prevent inflammation, which in turn reduces MMP-1 damage with the net effect of a bright and even skin appearance.

### Features and Benefits:

- Proven Redness Reduction
- Improved Skin Health
- Superior Skin Soother
- Enhances Skin's Appearance
- Anti-Inflammatory Effects
- Reduces Likelihood of Post Inflammatory Pigmentation

### INCI Name:

Water (and) Butylene Glycol (and) Camellia Sinensis (Tea) Extract (and) Aspalathus Linearis (Rooibos) Extract (and) Boswellia Serrata Extract (and) Honey Extract (and) Tetrapeptide-14 (and) Phenoxyethanol (and) Sodium Benzoate

### Recommended Use Level:

5%

### Safety:

Non-irritating, Non-sensitizing

### Availability:

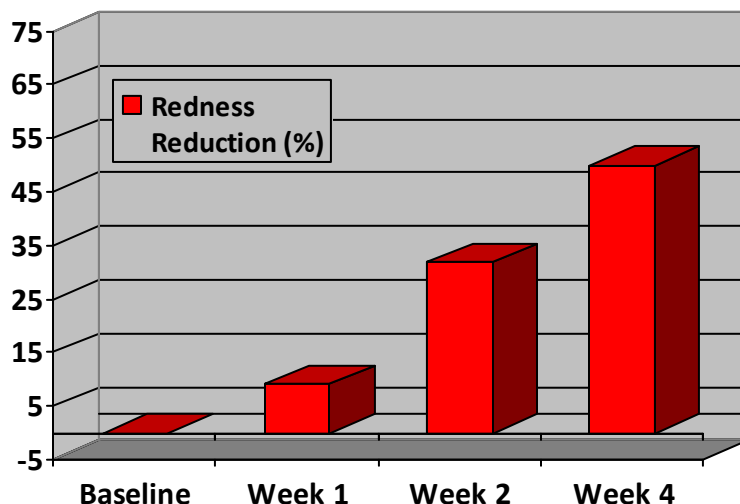
Globally

### Applications:

- Daily Wear
- Moisturizers
- Skin Toners
- Night Moisturizers

### Granactive AR-1423 Full Face Redness Study

**Granactive AR-1423** was evaluated in a leave-on cosmetic treatment at a 5% level on several subjects having redness associated with rosacea. This cosmetic treatment was effective at diminishing the redness by 50% over the course of the 4 week study.



1 Week

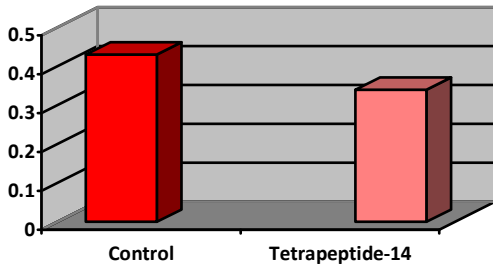
2 Weeks

4 Weeks

## Inflammation Due to UV-B Exposure

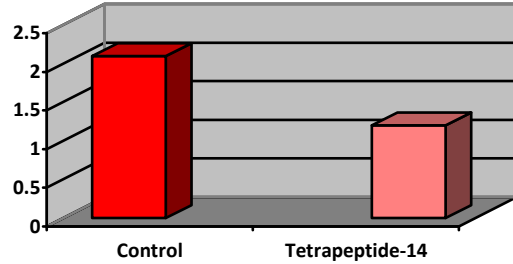
UVB causes inflammation by increasing interleukin-6 in keratinocytes. The IL-6 then induces fibroblasts to produce MMP-1 (matrix metalloproteinase-1), an enzyme that breaks-down the extra-cellular matrix leading to photoaging. The following dataset demonstrates the superior ability of tetrapeptide-14 to reduce IL-6 in keratinocytes and rapid reduce MMP-1 in fibroblasts to simultaneously alleviate inflammation and photoaging.

**IL-6 down regulated in UVB-treated skin keratinocytes**



21% reduction of IL6 production in keratinocytes.

**MMP-1 down regulation in skin fibroblasts stimulated by UV-B treated keratinocyte culture medium**



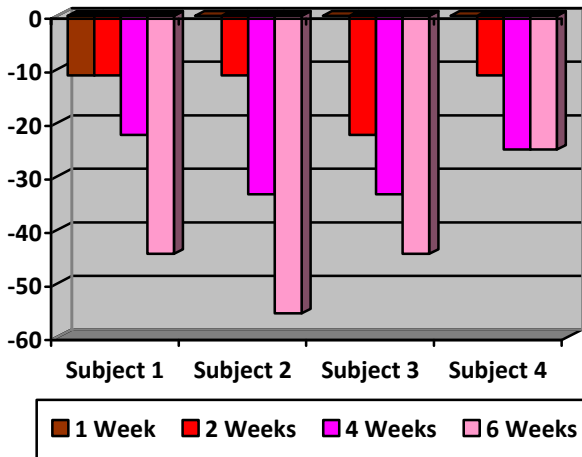
41% reduction in MMP-1 from affected fibroblasts.

**For Reduced Inflammation and Redness**

**Leading to Reduced Photoaging**

## Puffy Eye Study

A 6 week, 4 subjects study demonstrates tetrapeptide-14 dramatic reduction of puffiness under the eye. The photo on the left displays tetrapeptide-14 ability to noticeably reduce puffiness in 2 weeks. A mean value of 42.86% puffiness reduction was observed during the 6 week study.



Initial

6 Weeks

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