

# Sun Affected Skin

PROVEN RESULTS THAT OUR PRODUCTS WORK WONDERS FOR SUN AFFECTED SKIN

After treatment with Efudix cream, the skin was very inflamed, dry and sore.

The patient applied **Propolis Balm** twice a day and the skin was nearly back to normal after 5 days.



A superficial Basal Cell Carcinoma (BCC) was frozen with liquid nitrogen and a blister developed. The **Propolis Balm** was applied twice a day for 3 weeks and the skin healed without any scarring.



After treatment with Efudix cream, the patient also went out in the sun for a few hours and got sun-burnt badly. The **Active 8 Serum** was applied twice a day with the **Propolis Balm** for 5 days to reduce the redness, pain and dryness.



A Squamous Cell Carcinoma (SCC) was surgically removed. The patient applied the **Propolis Balm** twice a day for 3 weeks and the skin healed with very little scarring.



# DermaGen™



by BOTANICAL CHEMIST

## SUN-AFFECTED SKIN

100% DERIVED FROM NATURE

GENTLE YET EFFECTIVE



Discover more at [www.dermagen.net.au](http://www.dermagen.net.au)

# Ingredient Benefits

## Vitamin B3

### REDUCES CELLULAR INFLAMMATION

Inhibits inflammatory messengers in the immune response in the body<sup>(1)</sup>.

### ACTS AS AN ANTIHISTIMINE

Suppresses the body's histamine release in response to an allergen. Histamine causes blood vessels to swell, making a minor rash redder<sup>(1)</sup>.

### REDUCES NITRIC OXIDE

It helps to reduce the production of Nitric Oxide, which causes blood vessels to widen and more blood to flow to that area, reddening the rash<sup>(1)</sup>.

### RESTORES THE SKIN BARRIER

Increases bio-synthesis of Ceramides ( Ceramides are a family of lipid molecules, the glue that holds the skin cells together)<sup>(1)</sup>. As compromised lipids struggle to maintain the skin's integrity, a lot of moisture is lost due to evaporation through the weakened skin and allergens can enter, triggering the immune system or flare-up. Patients with Atopic Dermatitis have shown a lack of, or abnormal Ceramides.<sup>(2)</sup>

### PROVIDES CELLULAR ENERGY

Provides cells with cellular energy to repair the DNA damage caused by exposure to UV radiation from the sun.<sup>(4)</sup>

1. <https://pubmed.ncbi.nlm.nih.gov/12890690/>  
Nicotinamide, a potential addition to the anti-psoriatic weaponry
2. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6720956/>
3. [https://www.health.harvard.edu/newsletter\\_article/bringing-psoriasis-under-control](https://www.health.harvard.edu/newsletter_article/bringing-psoriasis-under-control)
4. <https://academic.oup.com/carcin/article/34/5/1144/2463125>

## Manuka Oil FOR SUN-AFFECTED SKIN

### Manuka Oil 10% helps to reduce the inflammation caused by UV radiation.

UV radiation is one of the most powerful environmental factors that cause skin damage. Repeated exposure to UV radiation causes premature skin aging, such as fine wrinkles, dry skin, increased skin thickness, and pigmentation.

This occurs because UV radiation creates Reactive Oxygen Species (ROS) which can damage cell structure. UV radiation also induces skin inflammation and increases inflammatory cytokines such as Tumour Necrosis Factor -Alpha (TNF - Alpha) and Interleukin - IL- 1 $\beta$ . 10% Manuka Oil was found to prevent skin thickening, wrinkle formation, loss of collagen fiber content and decrease inflammatory cytokines. Our Active 8 Serum has 10% Manuka Oil from the East Cape of New Zealand which has the highest amount of triketones.

(Reference: <https://pubmed.ncbi.nlm.nih.gov/23762170/>)

## Propolis

Propolis or 'bee glue' contains at least 300 active compounds.

Phenolic acids (caffeic, ferulic, chlorogenic, p-coumaric), benzoic acid, cinnamic acid and flavonoids are the most important biologically active compounds. Propolis also contains also minerals (calcium, magnesium, manganese, zinc, copper, iron, cobalt and selenium), vitamins (B1, B2, B6, C and E) and enzymes. Chrysin, which is a flavonoid, provides an analgesic effect.

<ul style="list-style-type: none"><li>• Increases fibroblast proliferation, activation and growth capacity.</li></ul>	<ul style="list-style-type: none"><li>• Strengthens the dermal tissue and protects it against pathogenic microorganisms.</li></ul>
<ul style="list-style-type: none"><li>• Stimulates tissue growth and wound closure.</li></ul>	<ul style="list-style-type: none"><li>• Active against the cold sore virus.</li></ul>
<ul style="list-style-type: none"><li>• Propolis ethanol extracts inhibit the growth of <i>Staphylococcus</i> mutant and <i>Staphylococcus</i> <i>sobrinus</i>.</li></ul>	<ul style="list-style-type: none"><li>• Smoothes out wrinkles and has antiaging properties by neutralising the effects of free radicals on the skin.</li></ul>
<ul style="list-style-type: none"><li>• Decreases inflammation in diabetic wounds.</li></ul>	<ul style="list-style-type: none"><li>• Increases type I and type III collagen.</li></ul>
<ul style="list-style-type: none"><li>• Protects also from ultraviolet radiation, since it can absorb UV light due to the presence of caffeic acid, coumaric acid, and ferulic acid.</li></ul>	<ul style="list-style-type: none"><li>• The presence of flavonoids (pinocembrin and pinobanksin), phenolic acids (caffeic acid) and terpenes gives it its anti-fungal properties.</li></ul>
<ul style="list-style-type: none"><li>• Caffeic acid is responsible for the anti-inflammatory effect of propolis.</li></ul>	<ul style="list-style-type: none"><li>• Lightens, moisturizes and smoothes the skin.</li></ul>
<p>This diabetic patient used the <b>Liquid Soap</b> to clean the skin, and <b>Propolis Balm</b> and <b>Active 8 Serum</b> twice a day for 7 days. She would normally be taking oral antibiotics and any sores would take 2-3 months to heal.</p>	

(1) (Reference <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7036894/>)