

BERACA



Proven efficacy



The search for natural ingredients that address the integrity of well-being is a constant in today's world. The concept of Wellness in all aspects of life includes inner balance and healthcare (through balanced eating as well as peaceful sleep); along with daily stress mitigation.

Considering this holistic approach of self-care, we can't forget the well-being associated with beauty. Thus, in line with this trend, Beraca launches its new active, based on a complex of natural oils, which have proven efficacy to decrease inflammatory activity and to promote β -endorphin production. The Cannabinoid Active System, Beracare CBA, is a complex of Amazon oils with high levels of terpenes and unsaturated fatty acids – especially linoleic acid. This important component relates to the increase of skin permeability, enhancing the ingredient's activity.

The endocannabinoid system, which is composed of a lipid-signaling network that modulates neuronal and inflammatory functions, is mainly composed of CB1 and CB2 receptors. In particular, the CB2 receptor mediates immunomodulatory and inflammatory properties, being activated by endogenous (endocannabinoid) or exogenous (usually agonist) ligands. The Beracare CBA, composed mainly of β -caryophyllene, an exogenous phyto-cannabinoid, is able to modulate cellular signals to cause reduction of inflammation and improvements in skin healing.

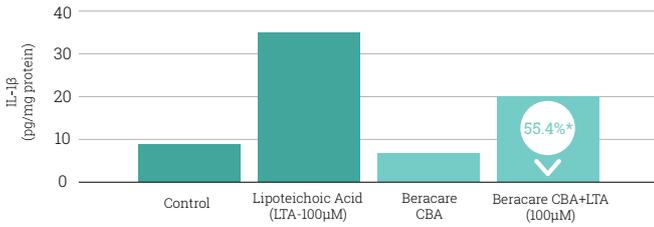
Efficacy tests have proven important benefits of the Cannabinoid Active System for beauty. Beracare CBA will help to mitigate of the effects of premature aging related to inflammatory stress, and it has the ability to support the re-epithelization and healing process due to the increased β -endorphin neuropeptide production, responsible for the balance and maintenance of skin well-being.

Beracare CBA is an ingredient with wellness and de-stressing properties. It promotes various skin benefits such as calming, improved healing activity and providing comfort as a whole. In addition, the product is a safe alternative to CBD, with versatility of uses and applications in different cosmetic products such as tonics, lotions, gels, creams, soaps, etc.

	Anti-inflammatory Activity		β-endorphin Production
	IL-1β	IL-6	
Test type	ex vivo		
Methodology	ELISA (enzyme immunoassay)		
Material	Human skin culture		
Additional information	Inflammatory agent: LTA: Lipoteichoic acid (100μM)		

ANTI-INFLAMMATORY ACTIVITY

Interleukin IL-1β

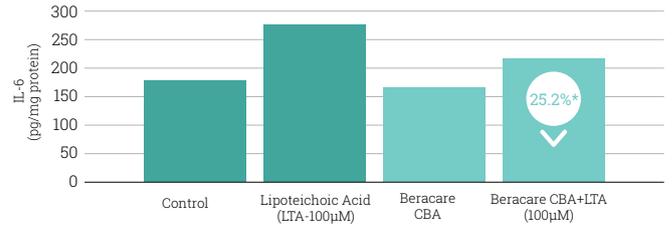


*Statistical significance of p<0.001 compared to LTA group

Effects of Beracare CBA (applied at 100%) in the production of IL-1β in human skin culture ex vivo.

It is possible to observe a significant decrease (55.4%) of IL-1β levels in the skin treated with Beracare CBA + LTA (Lipoteichoic Acid) when compared to skin stressed by LTA, presenting a protective effect on the skin. Additionally Beracare CBA doesn't show any impact on the production of IL-1β when compared to the Control, which means that the ingredient doesn't act as an inflammatory agent.

Interleukin IL-6



*Statistical significance of p<0.001 related to LTA group

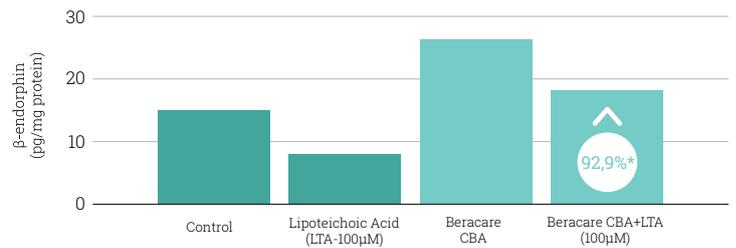
Effects of Beracare CBA (applied at 100%) in the production of IL-6 in human skin culture ex vivo.

It is possible to observe a significant decrease (25.2%) of IL-6 levels in the skin treated with Beracare CBA + LTA (Lipoteichoic Acid) when compared to skin stressed by LTA, presenting a protective effect on the skin. Additionally Beracare CBA doesn't show any impact on the production of IL-6 when compared to the Control, which means that the ingredient doesn't act as an inflammatory agent.

WELLNESS PROPERTIES

β-endorphin

LTA stimulation promoted a 39.06% reduction in β-endorphin production (p<0.001) when compared to the Control. On the other hand, the use of Beracare CBA + LTA was able to avoid the decrease of β-endorphin (p<0.001) besides stimulating its production by 92.9%, when compared to the group stressed by LTA. These values represent a protection rate against the Control of 100%.



*Statistical significance of p<0,001 related to LTA group

Effects of Beracare CBA (applied at 100%) in the production of β-endorphin in human skin culture ex vivo.

Indication

- Tonics
- Gels
- Serums
- Creams
- Lotions

Properties

- Increases β-endorphin production
- De-stressing
- Skin calming
- Improves skin healing
- Anti-inflammatory

