

The results are in

Karen is a powerful nutritional source for maintaining a person's good health. Proven by our in vitro tests, Karen can prevent many health issues by boosting internal factors that protect our internal systems.

Karen consistently increased protection against oxidative stress. Karen promotes collagen production where needed, cell regeneration, reduces inflammation, stimulates cell hydration and detoxifies cells under adverse conditions. As well, Karen stimulates angiogenesis and regulates apoptosis.

Oxidative stress

Oxidative stress is what happens when your body does not have enough antioxidants to neutralize free radicals. Free radicals are unstable molecules that react with other substances in your body to damage cells or create abnormal ones.

Oxidative stress is widely thought to contribute to the development of a very long list of diseases and ailments. To simulate oxidative stress, peroxide was used in the cells in all of our in vitro tests.

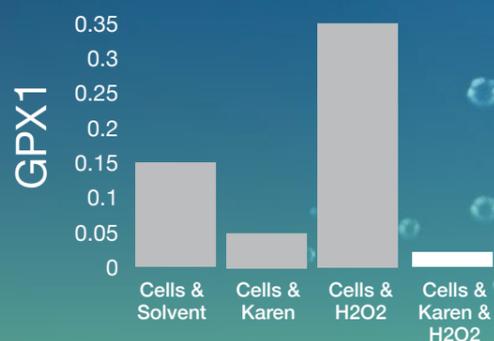
Proven synergy

If you consider all of the functions we've tested as working together, there are so many health issues related to dysfunction of these important systems in our bodies. For instance, skin conditions like Psoriasis or Eczema could be significantly decreased if you have properly hydrated cells, reduced inflammation and controlled angiogenesis and apoptosis. Increases in collagen production and cell regeneration will also be factors in final recovery for these skin issues and also assist with inflammation processes, such as Colitis and Irritable Bowel Syndrome (IBS).

Looking toward the future

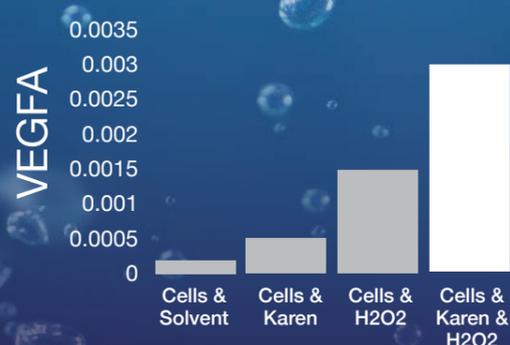
We are continuing our research for an even better understanding of how Karen maintains good health by pursuing all scientific evidence we can. Karen is the oldest source of nutrition on earth – 2,500 Million years and counting. Karen contains a wide range of nutrients, minerals, fatty acids, enzymes, etc. Together these nutrients contribute to increased health and well-being and we are still discovering new applications and new ways we can benefit from this incredible nutritional resource.

Antioxidant Protection



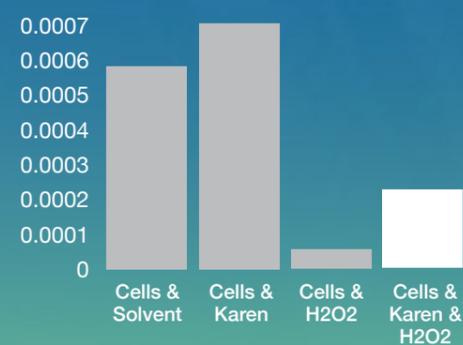
To research antioxidant protection, we focused on the gene expression related to GPX1, which increases when oxidative stress is present. When Karen is added, the GPX1 decreases to a point even lower than the control sample.

Angiogenesis



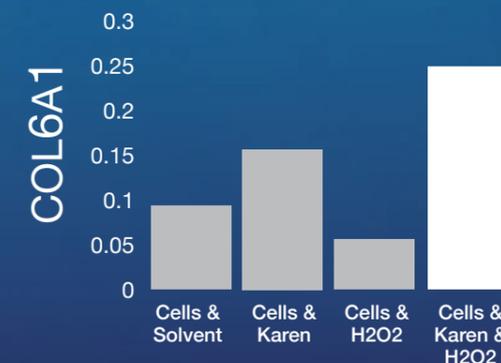
When tested, we found that Karen increases Angiogenesis. Angiogenesis is the process of increasing the number of micro arteria and small veins, which, in turn, increases the flow of blood to the cells. Improving Angiogenesis is much like improving a traffic jam on a congested road by adding more, smooth lanes. Among other benefits, improved Angiogenesis can significantly help to reduce and regulate blood pressure.

Cell Hydration



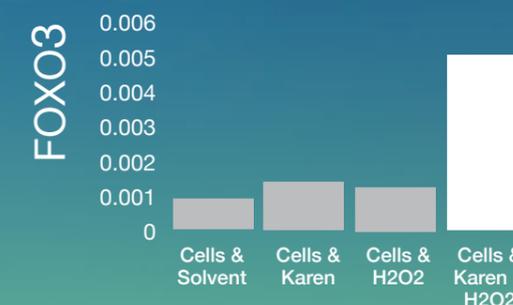
For the cell hydration study we looked specifically at Aquaporins – the channels that transport water inside the cells and assist in detoxification by removing metabolites from the cells. Under oxidative stress the AQP3 is downregulated and these Aquaporins channels are closed. However, once Karen is administered, many of these channels reopen.

Collagen Synthesis



Even in healthy cells, Karen stimulates the production of collagen – a main component of connective tissue. Collagen production increases drastically with Karen when cells are under oxidative stress because this is time when the collagen is needed most. Without Karen, cells under oxidative stress will only produce about half the control sample amount.

Anti-Aging



Karen modulates apoptosis, helping to control programmed cell death in the body. Cells in the body are meant to live and die. Apoptosis is part of this normal maintenance process and protects our internal systems from "rogue" cells. Rogue cells self-destruct when they are no longer working properly, unless the body's Apoptosis process is compromised. When compromised, tumors and cancer can develop.