





What is Kefin?

Clusters of complex polysaccharides, live bacteria, and yeasts existing in a symbiotic matrix.

Kefir cultures are known to consume sugar to produce acids, carbon dioxide, and small amounts of ethanol.

Traditional milk kefir is typically fermented overnight at room temperature.

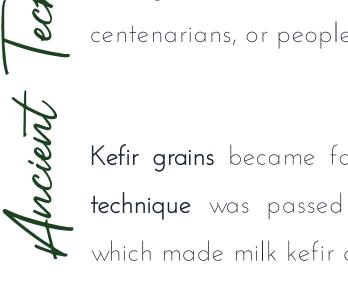
The fermentation process yields a sour, carbonated, slightly alcoholic beverage, with a consistency and taste similar to drinkable yogurt!

Nomadic people living in the Northern Caucasus region of Russia fermented milk with kefir grains to make supplies last longer.

(echnique

The people are renowned for their longevity, having one of the highest populations of centenarians, or people over 100 years old!

Kefir grains became family heirlooms, and the technique was passed down for generations, which made milk kefir a dietary staple.









Kefin Gains Popularity

A Russian immunologist, Dr. Metchnikoff, found milk kefir was one of the keys to longevity and well-being.

By the 1930s, kefir was being produced on a large scale to meet public demand in Russia.

Milk kefir was introduced to the Western world by the 1960s, and has become a food with global popularity.



Water KEFIR



Derived from prickly pear cacti, water kefir grains are clear-yellow crystals



Fermented with sugar water, such as fruit juices and coconut water



Water kefir produces polyhydroxy acids, like gluconic acid



Vegan & Gentle PHA

Active Concepts has developed a natural polyhydroxy acid, gentle enough for sensitive or reactive skin types.

Vegan gluconic acid from prickly pear inspires inclusive skin type personalization.

PHAs enhance natural skin beauty by promoting collagen synthesis.

Buff away tired skin with a gentle approach.



Water



Prickly Pear Cactus

A desert botanical, cacti are a source of nutrition, moisture, and an exotic powerhouse full of water kefir grains.



Water Kefin Grain

Gathered from the prickly pear cactus, these crystal-like "grains" are required for water kefir fermentation.



Gluconic Acid

Fermentation of the water kefir grains with sugar water creates this polyhydroxy acid, perfect for gentle exfoliation.

Available Efficacy Studies





In Vitro

• Sirius Red Fast Green Report

In Vivo

• Cellular Renewal Assay

Tox & Safety

- AMES Test Report
- Cellular Viability Assay Report
- Dermal & Ocular Irritation Tests
- OECD 201 Freshwater Alga Growth Inhibition Test Report
- OECD 301B Ready Biodegradability Assay
- OECD TG 442C Direct Peptide Reactivity Assay
- OECD TG 442D In Vitro Skin Sensitization Report
- Phototoxicity Assay Analysis Report

Sirius Red Fast Green Report





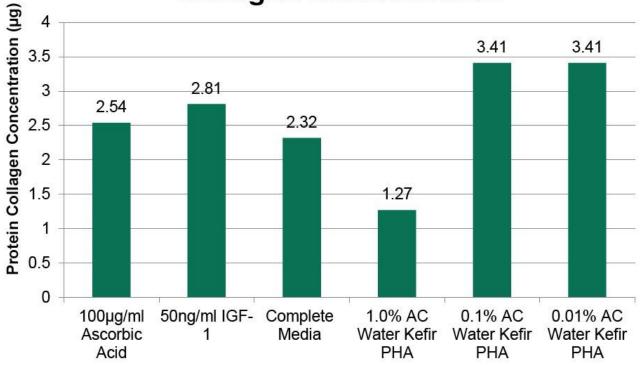


Fig 1. Effect of AC Water Kefir PHA on Collagen Concentration.

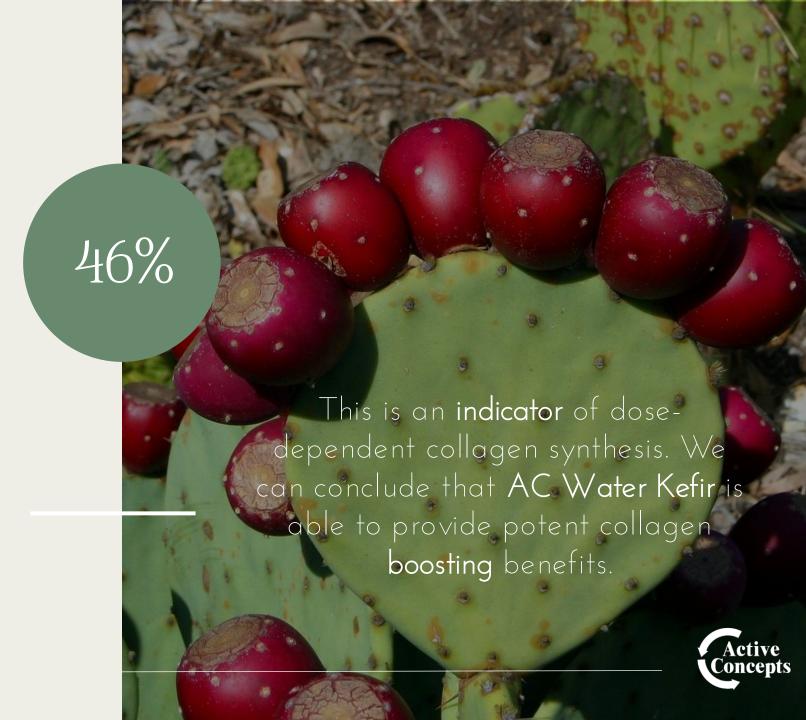
1%, O.1%, and O.01%

concentrations of AC Water

Kefir PHA were added to the serum-free DMEM and incubated with fibroblasts for 24 hours. AA2G and IGF-1 were used as positive controls.

AC Water Kefir PHA at 0.01% and 0.1% increased collagen synthesis compared to untreated fibroblasts by

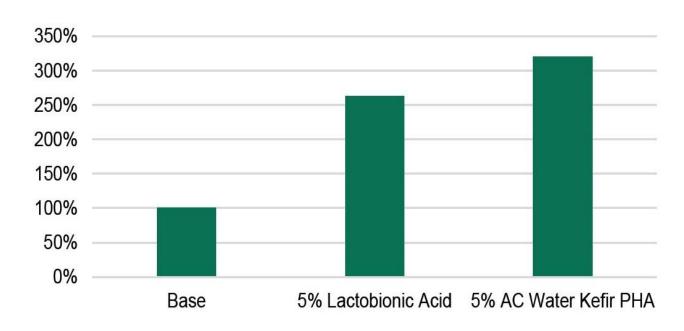
Benefits



Cellular Renewal Assay



Cumulative Cellular Renewal



Dermal Dye Max® was used to induce skin pigmentation, then the skin sites were treated with either 5% lactobionic acid positive control, 5% AC Water Kefir PHA, or the base lotion formula. Readings were taken every 24 hours until the active test sites returned to baseline.

Fig 2. Cellular Renewal abilities of AC Water Kefir PHA compared to Lactobionic Acid

AC Water Kefir PHA
increased cumulative cellular
renewal compared to the
base lotion by

Benefits



Summary



WHAT.

AC Water Kefir PHA is a vegan, natural, polyhydroxy acid perfect for gentle chemical exfoliation.

WHY.

Water kefir **fermentation** creates gluconic acid, a PHA which dissolves bonds that hold dead skin cells together.

MADE OF.

Standardized for gluconic acid, naturally derived from the water kefir grains of Opuntia Ficus-Indica Fruit Extract.



AC Water Kefir PHA provides collagen synthesis boosting and gentle cellular renewal benefits to sensitive or reactive skin types.



AC Water Kefin PHA





Code: 22064

INCI: Water & Opuntia Ficus-Indica Fruit Extract & Lactobacillus Ferment

Appearance: Clear to Hazy Liquid, Yellow to Orange

Suggested Use Level: 1-10%

Natural & Vegan PHA | Increases Cellular Renewal | Promotes Collagen Synthesis

Standardized for Natural Gluconic Acid: 18.0% to 24.0%













In Vivo

| SC | 10128 | Sr | NO|

Vegan Compliant

COSMOS Compliant China Compliant

