

Edelweiss Extract Research Paper

APPEARS IN



Leontopodium Alpinum, also known as Edelweiss, is a star-shaped flower that grows in mountain ranges as high as 1800 to 3000 m above sea level. As such, "The Queen of the Mountain" is exposed to high levels of UV radiation at these high altitudes. Edelweiss extract is well known for its ability to lift the skin, reduce the look of fine lines and wrinkles, and improve skin elasticity. Three Ships sustainably sources Edelweiss Callus Culture Extract in [Firm Believer Goji Stem Cells + Pomegranate Smoothing Neck + Face Cream](#).

EDELWEISS EXTRACT IS WELL KNOWN FOR ITS ABILITY TO LIFT THE SKIN

Edelweiss has been used in traditional medicines for a variety of ailments and is now being studied extensively for its additional skin benefits. Edelweiss Callus Culture Extract is rich in leontopodic acid which helps it act as a strong antioxidant, in addition to having antimicrobial and anti-inflammatory properties. Its antioxidant properties help it to withstand the harsh environment it grows in. Furthermore, this plant's extracts have been shown to increase skin moisturization, improve the appearance of fine lines and wrinkles, and increase skin elasticity and thickness.



Edelweiss Callus Culture Extract is created by taking a cell culture of the Edelweiss plant and mixing with other natural ingredients to increase its concentration of leontopodic acid. Edelweiss is a rare and protected plant, so our supplier uses special technology to grow the plant without harvesting it from the natural environment. After originally sourcing the plant from a botanical garden, this technique allows Edelweiss to be grown with less space, less water, less pollution, and no pesticides. The exact method of extraction of Edelweiss Extract that Three Ships sources is proprietary information.

EDELWEISS CALLUS CULTURE EXTRACT IS RICH IN LEONTOPODIC ACID WHICH HELPS IT ACT AS A STRONG ANTIOXIDANT

Plant callus is used to describe disorganized cell masses which are often created to cover a plant wound.

Scientists use callus to grow plants with ideal properties while conserving and protecting rare plants.

Edelweiss Callus Culture Extract is grown to contain a variety of bioactive compounds, including leontopodic acids, flavonoids, phenolic acids, lignans, as well as terpenes and alkaloids.

SCIENTIFIC STUDY

Anti-Oxidant, Moisturizing, and Skin Density Effects of Edelweiss Callus Culture Extract

This study assessed a variety of effects of Edelweiss extract on the skin. Antioxidant activity of the extract was measured using DPPH radical scavenging assay and hydrogen peroxide-induced MTT assay. Edelweiss extract prevented the reduction of cell viability caused by hydrogen peroxide as effectively as N-acetyl cysteine, a natural antioxidant found in the cell. Moreover, radical scavenging activity in the DPPH assay was increased from 2.85% to 20.47% with increasing concentrations of Edelweiss extract. To examine the moisturization effect of Edelweiss, the researchers measured the expression of the Aquaporin-3 gene, which encodes for a protein that is responsible for the transport of water across the skin cells. With increasing concentration of Edelweiss Callus Culture Extract, the expression of Aquaporin-3 also increased. This study also performed clinical evaluations of facial lifting, periorbital wrinkles, skin elasticity, skin thickness, and dermal density. Over four weeks of application, 90.48% of volunteers showed a decrease in roughness of their periorbital wrinkles. In addition, volunteers who applied the Edelweiss Callus Culture Extract were found to have a greater increase in 3 parameters that indicate skin elasticity compared to those who used the placebo. Users of the extract also saw a greater improvement in skin thickness and dermal density compared to the placebo group.

Edelweiss extract has been used in folk medicine to treat a variety of ailments and is now being hailed for its excellent ability to reduce inflammation and free-radical damage, and to improve the appearance of fine lines and wrinkles. The extract of this rare plant is sourced sustainably through callus culture technology to grow with little environmental impact and ideal bioactive compounds. It can be found in Three Ships' Firm Believer Smoothing Neck + Face Cream.