

TECHNICAL DATA SHEET

Product Name: Concentrated Quillaja saponaria extract, powder 10:1

INCI Name: Quillaja saponaria Extract

CAS: 68990-67-0

Synonyms: Soap bark extract, Saponins of soap bark, Soap bark saponins, Quillaja bark extract, Extract of Quillaja bark, Soapbark saponins, Soap bark saponins, Quillay extract, Quillay bark extract, Panamanian Quillaja extract, Chilean Quillaja extract, Quillay saponins, Panama bark extract

Product Quality: The product is concentrated at a ratio of 10:1, meaning the amount of plant material used to obtain the extract is ten times greater than the final amount of the extract. This ratio is used to emphasize the strength of the extract and its efficiency.

Origin of Raw Material: China

Description: Quillaja saponaria (soap bark) is an evergreen tree native to the central and southern regions of Chile. It belongs to the Quillajaceae family and can reach a height of 15-20 meters. The tree is characterized by dark green, leathery leaves, and small, white flowers that bloom in dense clusters. The most important phytochemical components in Quillaja saponaria are: saponins, triterpene glycosides (quillaia saponin A and B), triterpenes (quillaic acid, quillaiadiol, and quillaienin), sterols, flavonoids, and tannins. This extract is valued for its unique properties, primarily its high saponin content. The powder has a characteristic smell and is soluble in water.

Benefits:

- **Natural Surfactant:** The natural surfactants present in Quillaja Saponaria extract act by reducing the surface tension between two substances, such as water and oil. This allows water to mix better with oils and impurities, facilitating their removal from the skin or hair surface. Saponins, the active ingredients in the extract, have a unique structure that allows them to surround oil or dirt particles, forming microscopic spheres or micelles. These micelles can then be washed away with water, effectively cleaning the surface without damaging or drying out the skin.

- **Moisturizing Action:** Although primarily known for its cleansing properties,

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Quillaja Saponaria extract can also help in moisturizing the skin. Its ability to help retain moisture can lead to a more hydrated, softer, and smoother skin.

- **Anti-inflammatory Action:** The anti-inflammatory action of Quillaja Saponaria extract can be attributed to the presence of saponins and other bioactive components in the extract. These components can help reduce inflammation by inhibiting the production and release of inflammatory mediators in the skin, such as prostaglandins and cytokines. Through this action, the extract can reduce redness, swelling, and skin irritation, providing a soothing effect on sensitive and irritated skin. It can help soothe skin conditions such as eczema and psoriasis.

- **Antioxidant Effects:** The extract may also contain antioxidants that help protect the skin from environmental stressors such as pollution and UV radiation. Antioxidants can neutralize free radicals, reducing the risk of premature aging and improving overall skin health.

- **Mild and Gentle:** Unlike synthetic surfactants that can be harsh on the skin and scalp, Quillaja Saponaria extract is mild and gentle. This makes it ideal for use in products formulated for sensitive skin or for individuals looking for milder, more natural cosmetic options.

Usage: Used for making water-glycol extracts, glycerites, tinctures, and other cosmetic semi-products. Recommended concentrations range from 1-10%.

Storage (Shelf Life): Stable when stored in a dry and cool place. Approximate shelf life of 2 years.

Animal Testing: The substance has not been tested on animals.

GMO: Non-GMO

Vegan: Does not contain animal-derived components.