

TECHNICAL DATA SHEET

Product name: Aloe Vera Powder (10:1)

INCI name: Aloe Barbadensis Leaf Extract

CAS: n/a

Botanical name: Aloe Barbadensis Leaf Extract

Origin of raw material: China

Description: Aloe vera is a succulent plant from the Asphodelaceae family, with thick, fleshy, green to gray-green leaves often bearing small spines. The term "succulent" implies that it's a type of plant capable of accumulating and retaining water in its leaves, stems, or roots, allowing it to survive in dry and arid conditions. The plant forms a rosette and can grow to a height of 60-100 cm. It blooms yellow or orange tubular flowers on tall stalks. Its natural habitat is the Arabian Peninsula, but it is now widespread in tropical and subtropical regions around the world. It contains over 75 different components, including amino acids, enzymes, hormones, minerals, saponins, sterols, sugar (starch), lectins, and vitamins. It is not genetically modified. Aloin content (1:199 w/w). The aloe extract 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 extract amount. This ratio is used to emphasize the strength of the extract and its efficacy. It is soluble in water, glycerin, and glycols.

Benefits:

- **Moisturizing properties:** Aloe vera extract helps maintain moisture by attracting water from the air into the upper layers of the skin, making the skin hydrated and soft. It improves the skin's barrier function. It reduces transepidermal water loss (TEWL) - the process through which water evaporates from the skin's surface. This allows the skin to better retain moisture, resulting in long-lasting hydration. Aloe vera is rich in polysaccharides, especially aloverose, which forms a protective layer on the skin that helps retain moisture. This layer not only hydrates but also soothes the skin, providing it with a smooth and soft texture. Aloe vera extract contains vitamins, such as vitamin C and E, and minerals that are important for maintaining skin health and its moisturizing properties. These nutrients contribute to skin regeneration and help maintain its

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hydration.

- **Soothing properties:** Aloe vera contains various compounds that have natural anti-inflammatory properties, such as aloin and emodin. These compounds help reduce inflammation and redness of the skin, providing a soothing effect on irritated or damaged skin areas. Aloe vera extract has mild analgesic effects that can help reduce feelings of pain or discomfort associated with skin irritations, sunburns, or minor skin injuries.

- **Wound healing:** Aloe vera promotes wound healing by stimulating the growth and repair of skin cells. Faster healing of minor scratches, cuts, or burns can reduce irritation and improve the overall condition of the skin.

- **Antibacterial and antifungal action:** Helps prevent the growth of bacteria and fungi on the skin, reducing the risk of infections.

- **Anti-aging effects:** Contains antioxidants such as vitamins C and E that help fight free radicals, reducing the visibility of wrinkles and fine lines.

- **Reducing pigmentation:** Helps reduce the appearance of dark spots and hyperpigmentation, evening out skin tone.

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

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

Animal testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain components of animal origin