

## TECHNICAL DATA SHEET

**Product Name:** Chaparral Powder 10:1

**INCI Name:** Larrea Divaricata Leaf Extract

**CAS:** 91722-67-7

**Botanical Name:** Larrea Divaricata

**Synonyms:** Creosote Bush, Chaparral, Gobernadora, Hediondilla, Jarilla, Greasewood, Lignum aloes, Chaparro, Larrea tridentata, Tetraena divaricata

**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 quantity of the extract. This ratio is used to emphasize the strength and effectiveness of the extract.

**Source of Raw Material:** China

**Description:** Larrea divaricata, known as Chaparral, is a small evergreen shrub from the family Zygophyllaceae. The term chaparral comes from the Spanish word "chaparro," which refers to "low evergreen oaks." It grows in arid regions of South America, where it is known as Jarilla or Jarillo. The shrub can grow up to a maximum height of 3 meters. The flowers are yellow with five petals and appear in October and November. The fruits are dry capsules covered with gray hairs. Chaparral extract contains numerous phytochemicals. Nordihydroguaiaretic acid (NDGA) is a powerful antioxidant that helps protect the skin from oxidative stress caused by free radicals. It can prevent premature aging, reduce the appearance of fine lines and wrinkles, and improve overall skin health. Flavonoids, such as quercetin and kaempferol, exhibit strong antioxidant and anti-inflammatory properties. They help soothe irritated skin, reduce redness, and protect the skin from environmental damage. Lignans have antioxidant properties and can help maintain skin elasticity and firmness. They also contribute to protection against UV damage. Phenolic compounds, including various phenolic acids, contribute to the extract's antioxidant and anti-inflammatory activities. They help protect the skin from oxidative damage and soothe inflammation. Tannins possess astringent properties that can help tighten the skin. They also have anti-inflammatory effects, which can help soothe irritated skin. Saponins have cleansing and emulsifying properties, making them

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useful in cosmetic formulations for their ability to gently cleanse the skin and enhance the texture of cosmetic products. Terpenoids contribute to the extract's anti-inflammatory and antimicrobial properties. They can help reduce skin inflammation and prevent microbial infections. Sterols can help maintain the skin barrier function, providing hydration and improving skin elasticity. The extract is water-soluble and has a characteristic smell.

### Benefits:

- **Antioxidant Protection:** Antioxidants present in chaparral extract neutralize free radicals, preserving skin health and contributing to a youthful appearance. The antioxidants in chaparral extract can also help protect the skin from harmful UV radiation, maintain its hydration, and promote cell regeneration.

- **Hydration and Skin Renewal:** Chaparral extract contains nutrients that can hydrate the skin and provide essential vitamins and minerals. This can help renew dry and sensitive skin, making it soft and smooth.

- **Improvement of Complexion:** Regular use of the extract can help improve skin complexion, making it brighter, more radiant, and even-toned.

**Soothing Irritation and Redness:** The extract has anti-inflammatory properties that can help soothe irritated or inflamed skin and reduce redness and irritation.

- **Skin Regeneration:** Active ingredients in chaparral extract can stimulate the skin's regeneration process, helping to repair damaged cells and tissues, which can accelerate the healing of wounds, scars, or other skin damage.

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

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

**GMO:** Non-GMO

**Vegan:** Does not contain animal-derived components.

**Storage and Shelf Life:** The extract is stable when stored in a dry, cool place, protected from light. Shelf life is 2 years.

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