

TECHNICAL DATA SHEET

Product name: Black Tea Extract 10:1

INCI name: Camellia Sinensis Extract

CAS: 84650-60-2

Synonyms: Tearubigin Extract, Asama/Ceylon Extract, Caffeinated Tea Extract, Tea Leaf Extract, Theaflavin Extract, Thearubigin Extract, Fermented Tea Extract, Assam Extract/Ceylon Extract, Black Tea Polyphenols, Tea Tannin Extract, Caffeinated Tea Extract

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

Source of raw material: China

Description: Camellia sinensis is a small evergreen shrub or tree originating from East Asia. It usually grows to a height of 2-5 meters but can be lower in cases where it is cultivated for tea production. The plant has glossy green leaves with serrated edges, ranging in length from 4-15 cm. It produces small, white flowers with a sweet scent, which yield fruits containing seeds. Leaves and leaf buds are harvested for tea production, and variations in processing lead to different types of tea (such as green, black, oolong, and white teas). The plant prefers acidic soil and can grow in a variety of climatic conditions, from tropical to subtropical regions. Black tea extract contains numerous phytochemicals: powerful theaflavin antioxidants: Theaflavin (TF), Theaflavin-3-gallate (TF-3-G), and Theaflavin-3,3'-digallate (TFDG)), catechins - phenolic antioxidants: Epicatechin (EC), Epigallocatechin (EGC), Epicatechin gallate (ECG), Epigallocatechin gallate (EGCG)). The extract also contains important phytochemicals such as Caffeine, Theobromine, and Theophylline, the amino acid - L-theanine, and tannins responsible for the characteristic bitter taste and astringent actions: proanthocyanidins, and Gallic acid and its ester forms.

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Benefits:

- **Antioxidant properties:** Black tea is rich in polyphenols such as theaflavins and thearubigins. These antioxidants help protect the skin from external stressors such as pollution and UV radiation, reducing signs of skin aging.
- **Anti-inflammatory effects:** The anti-inflammatory effect of black tea is based on the presence of polyphenols, such as theoflavins and thearubigins, as well as other antioxidants. These substances can reduce inflammation by neutralizing free radicals and inhibiting molecules that trigger inflammatory reactions in the body. Black tea extract can help soothe irritated skin, reducing redness and swelling. It is beneficial for conditions such as acne and rosacea.
- **Hydration:** Black tea extract promotes renewal and maintains the natural function of the skin barrier. When the skin barrier is healthy and functional, the skin more efficiently retains moisture, resulting in improved hydration, elasticity, and softness of the skin. Adding black tea extract to cosmetic formulas can contribute to the overall health and hydration of the skin.
- **Skin tightening:** The caffeine in black tea extract has a skin-tightening effect, which can help reduce the appearance of fine lines and wrinkles, giving the skin a firmer and younger look.
- **Skin lightening:** Black tea extract can help improve the skin tone by lightening the skin and reducing the appearance of dark spots and hyperpigmentation.
- **Protection against photo-aging:** The antioxidants in black tea extract can protect the skin from photo-aging, which can occur due to prolonged exposure to UV rays from the sun. By neutralizing free radicals caused by UV radiation, antioxidants reduce DNA damage and inflammation. They also promote the production of collagen and elastin, preserving the elasticity and youthfulness of the skin.
- **Reducing puffiness:** Caffeine in black tea extract improves blood circulation and reduces fluid retention, helping to reduce puffiness and dark circles under the eyes.

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

Extraction: Black tea extract is obtained by the process of full oxidation of the leaves of the tea plant *Camellia sinensis*. After harvesting, the leaves undergo special treatment and a fermentation process, which changes the chemical composition of the leaves, causing the leaves to turn black and acquire the characteristic taste of black tea. Finally, the oxidized leaves are dried to stop further oxidation and preserve the aroma

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and color of the tea.

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: Non-GMO.

Vegan: Does not contain animal-derived components.

