Avena Lab
Farmadria d.o.o. Since 1991.

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TECHNICAL DATA SHEET

Product Name: White Tea Powder 10:1

INCI Name: Camellia Sinensis Leaf Extract

CAS: 84650-60-2

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

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

Origin of Raw Material: China

Description: Camellia sinensis is a small evergreen shrub or tree originating from East Asia. The tree usually grows to a height of 2-5 meters, but it can be shorter when cultivated for tea production. The plant has glossy green leaves with serrated edges, 4-15 cm in length. It produces small, white flowers with a sweet scent, which yield fruits containing seeds. The 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 various climatic conditions, from tropical to subtropical regions. White tea is also known as Jinzhen. It is predominantly produced in Asia. It is harvested for only a few days in spring when the white buds are young. White tea consists of a mix of leaves and the finest silver needle tea buds (bai hao yin zhen). It is dried under natural sunlight and minimally processed to retain a high concentration of polyphenols. In addition to polyphenols, white tea extract contains numerous other phytochemicals: powerful theaflavin antioxidants (Theaflavin (TF), Theaflavin-3-gallate (TF-3-G), and Theaflavin-3,3'-digallate (TFDG)), catechins: 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:*** The mechanism of antioxidant action of white tea is based on the neutralization of free radicals. Polyphenols, such as epigallocatechin gallate (EGCG), can effectively donate electrons to free radicals, thereby stabilizing them and preventing further cell damage. Some polyphenols can bind to metal ions, such as iron and copper, which can catalyze the production of free radicals, thereby reducing their availability to participate in reactions that generate free radicals. Components of white tea can increase the activity of enzymes in the body that participate in neutralizing free radicals, such as superoxide dismutase (SOD), catalase, and glutathione peroxidase. By helping protect the skin from external stressors such as various pollutants and UV radiation, they reduce signs of skin aging.

• ***Anti-inflammatory Effects:*** The anti-inflammatory effect of white tea is based on the presence of polyphenols (theaflavins and thearubigins), as well as other antioxidants. These substances can reduce inflammation by neutralizing free radicals and inhibiting molecules that trigger inflammatory reactions. White tea extract can help soothe irritated skin, reducing redness and swelling. It is useful for conditions such as acne and rosacea.

• ***Hydration:*** White tea extract promotes renewal and maintains the natural barrier function of the skin. When the skin barrier is healthy and functional, the skin more effectively retains moisture, resulting in better hydration, elasticity, and softness of the skin.

• ***Skin Tightening:*** Caffeine in white 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 Brightening:*** White tea extract can help improve the skin's complexion by brightening the skin and reducing the appearance of dark spots and hyperpigmentation.

• ***Protection from Photo-aging:*** Antioxidants in white tea extract can protect the skin from photo-aging that can occur with prolonged exposure to the sun's UV rays. By neutralizing free radicals produced 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.

• ***Reduction of Puffiness:*** Caffeine in white tea extract improves blood circulation, reduces fluid retention, and helps reduce puffiness and dark circles under the eyes.

Usage: Used for making water-glycerin extracts, glycerites, tinctures, and other

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cosmetic semi-products. Recommended concentrations range from 1-10%.

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

GMO: Not GMO.

Vegan: Does not contain components of animal origin.