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Elderberry Extract (*Sambucus*)

Black elderberry (*Sambucus nigra* L.) is rich in protein, free and conjugated forms of amino acids, unsaturated fatty acids, fiber fractions, vitamins, antioxidants and minerals. Due to its rich content, it is currently used in multipurpose foods and as a dietary supplement. The most important polyphenol group obtained from black elderberry flowers are chlorogenic acids and coumaroylquinic acids.



The polyphenolic extract from black elderberry has protective effects for cardiovascular health. The most important metabolites found in black elderberry fruits, which are also anthocyanins, are cyanidin-3-glucoside and cyanidin3-sambubioside metabolites. Other known metabolites are lectins, cyanogenic glycosides, essential oils, fatty acids and minerals. Although elderberry fruit and flower extract is used as food coloring and flavoring in the food industry due to the phytochemicals it contains, it has actually been used in public health for centuries in the treatment of various diseases.



Green Tea Extract (*Camellia sinensis*)

Green tea extract is used as a natural flavoring agent in foods due to its antioxidant properties. The chemical composition of green tea is highly complex, containing various chemical compounds, including polyphenols, alkaloids, proteins, minerals, vitamins, and amino acids. Green tea extract is particularly rich in catechins and serves as a natural alternative to chemical antioxidants. Green tea is highly popular due to its notable health benefits, including anticancer, antioxidant, and antimicrobial activities, as well as its effectiveness in reducing body weight.

Green tea polyphenols are also responsible for its distinct aroma, color, and taste. Green tea extract can also be used in lipid-containing foods to delay lipid oxidation and extend the shelf life of various food products. Its use is widespread in dairy products, processed meats, dry foods, beverages, ice cream, and other products.



For skin: %0.5-2.5 (cream, serum & tonic)

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Silybum Marianum Extract (SME)

Milk thistle fruits contain a variety of bioactive compounds, mainly silymarin. SME shows free radical scavenging activity due to the high content of different categories of bioactive compounds (antioxidants) including silymarin, phenolics, flavonoids, tannins, α -tocopherol, carotenoids, chlorophyll and anthocyanin, etc.



Silybum
Marianum

Thistle, one of the medicinal and aromatic plants, is used in foods as flavoring, coloring, preservative and antioxidant thanks to its active ingredients.



Artichoke Extract (*Cynara cardunculus*)

Dietary fibers from artichoke leaves and stems, such as inulin and pectin, are prominent in bakery products and functional food production with their properties such as prebiotic and gelling agent. The main phenolic component of artichoke is caffeoylkunic acid.

In addition to phenolic compounds, artichoke also contains some flavonoids such as apigenin and luteolin. Inulin obtained from the stems, leaves and sepals of artichoke is used as a fat substitute in chicken sausage formulations and dairy products such as low-fat yogurt.



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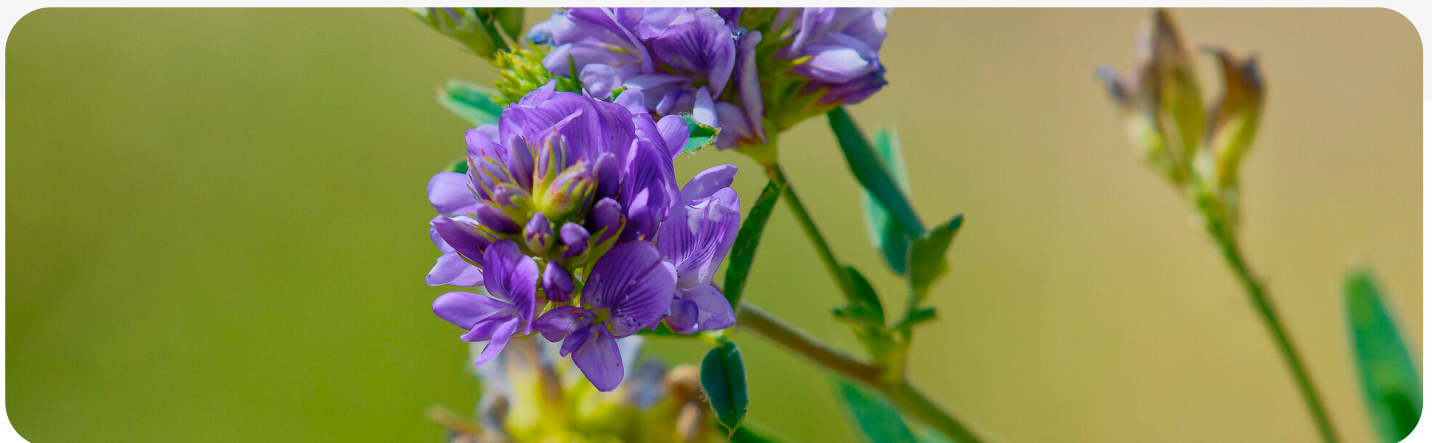


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Alpha-Alpha Extract (*Medicago sativa*)

Medicago sativa L. (Leguminosae), commonly known as alfalfa, is traditionally used as antidiabetic, antioxidant, anti-inflammatory, antiasthmatic and antimicrobial medicine, as well as for the treatment of disorders of the central nervous and digestive systems.



Alfalfa is widely cultivated for use as animal feed and human food and is also known to contain abundant nutritional components and various secondary metabolites, including saponins, sterols, coumarins, flavonoids, phenolics, vitamins and other nutrients. Pharmacological studies on the medicinal properties of alfalfa have demonstrated its beneficial effects on diabetes, atherosclerosis, osteoporosis and various degenerative diseases.



Olive Leaf Extract (*Olea europaea*)

Olive leaf extract (OLE), a naturally extracted product from olive leaves, contains many bioactive phenolic compounds with contents ranging from 1% to 14%, the most abundant being oleuropein. It is known to have antioxidant, antibacterial, antifungal, antihypertensive, antiatherogenic, anti-inflammatory, hypoglycemic and hypocholesterolemic properties. Today, it is frequently used as a food additive in baby milk and biscuits and in the pharmaceutical industry with its antibacterial properties. Olive leaves can also be used as an additive in animal feed. Olive leaf medicines are now used not only for human health but also for animal health. It is frequently used abroad for its natural antibiotic and antiparasitic effects in pet food and herbal medicines. In addition, in studies conducted in the field of materials other than the health and food sector, it has been proven that extracts obtained from olive leaves have the effect of preventing acid corrosion of materials. In a study conducted on a carbon steel material, an improvement in the inhibition of acid corrosion was achieved by increasing the concentration of the extract.

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