ORGANIC HERB INC
NATURAL INGREDIENT SOLUTIONS
湖南康隆生物科技股份有限公司
Tel:+86-731-82739230
Fax:+86-731-82739211
Email:info@organic-herb.com

OHI
NATURAL INGREDIENT SOLUTIONS

- Latin Name: Fragaria ananassa Duchesne
- Active Ingredient: anthocyanins, ellagitannins, flavonols, terpenoids, phenolic acids
- CAS No.:
- Test method: TLC
- Specifications: 4:1,10:1

Product Description:
Name :Strawberry Extract
Source: Strawberry
Botanical Name :Fragaria ananassa Duchesne
Extract part: Fruit
Composition ratio: 10 to 1
Identification measure :TLC
Appearance: Fine Brownish Yellow powder
Country of origin:P.R. China

Source

Strawberry is a plant that produce a common and important fruit in many diets.Strawberry is cultivated worldwide as it is highly economically valued .The plant is widely grow in a hybrid species of the genus Fragaria (Fragaria × ananassa).The fruit (which is not a botanical berry, but an aggregate accessory fruit) is widely appreciated for its characteristic aroma, bright red color, juicy texture, and sweetness. It is consumed in large quantities, either fresh or in such prepared foods as preserves, fruit juice, pies, ice creams, milkshakes, and chocolates. Artificial strawberry flavorings and aromas are also widely used in many products like lip gloss, candy, hand sanitizers, perfume, and many others.

Strawberries also used for their high content of essential nutrients and beneficial phytochemicals, which seem to have relevant biological activity in human health.People take strawberry for a wide range of conditions mainly because its antioxidantive , anti-inflammatory,antiproliferative,antimicrobial, anti-allergy and anti-hypertensive properties .

Main bio-actives

Strawberries are packed with phytonutrients ,they are excellent sources of vitamin C, a good source of manganese, and provides several other vitamins , dietary minerals , fibers in lesser amounts. Strawberries contain anthocyanins, ellagitannins, flavonols,

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terpenoids, and phenolic acids and particularly high levels of antioxidants known as polyphenols,among these phytochemicals, anthocyanin and ellagitannins are the major antioxidant compounds.

Color

Pelargonidin-3-glucoside is the major anthocyanin in strawberries and cyanidin-3-glucoside is found in smaller proportions. Although glucose seems to be the most common substituting sugar in strawberry anthocyanins, rutinose, arabinose, and rhamnose conjugates have been found in some strawberry cultivars.
Purple minor pigments consisting of dimeric anthocyanins (flavanol-anthocyanin adducts : catechin(4α→8)pelargonidin 3-O-β-glucopyranoside, epicatechin(4α→8)pelargonidin 3-O-β-glucopyranoside, afzelechin(4α→8)pelargonidin 3-O-β-glucopyranoside and epiafzelechin(4α→8)pelargonidin 3-O-β-glucopyranoside) can also be found in strawberries.

Applications

People take strawberry for a wide range of conditions including diarrhea, sluggish intestines, liver disease, yellowed skin (jaundice), pain and swelling (inflammation) of the lining of the respiratory tract, gout, arthritis, nervous tension, water retention (edema), kidney ailments involving gravel and stones, fever, night sweats, and “tired blood” (anemia).
It is also used for “purifying the blood,” stimulating metabolism, preventing menstruation, and supporting “natural weight loss.”
Some people put strawberry in a cloth and hold it against the skin (as a compress) for rashes.

--Strawberry - Wikipedia, the free encyclopedia;https://en.wikipedia.org/wiki/Strawberry
--STRAWBERRY_ Uses, Side Effects, Interactions and Warnings - WebMD; http://www.webmd.com/vitaminssupplements/ingredientmono362Strawberry.aspx?activeIngredientId=362&activeIngredientName=Strawberry&source=1
--Francesca Giampieri, D.Sc.,et al; “The strawberry: Composition, nutritional quality, and impact on human health”;Nutrition 2012
--Eunyoung Park,et al; “Strawberry Polyphenols and Insulin Resistance: a dose-response study in Obese Individuals with Insulin Resistance”;The FASEB Journal 2015
--Nan Qin,et al; “Anti-obesity and anti-diabetic effects of flavonoid derivative (Fla-CN) via microRNA in high fat diet induced obesity mice”;Eur J Pharm Sci 2016
--KATHERINE J. MEYERS,et al; “Antioxidant and Antiproliferative Activities of Strawberries”;JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY DECEMBER 2003
--YANJUN ZHANG, NAVINDRA P. SEERAM,et al; “Isolation and Identification of Strawberry Phenolics with Antioxidant and Human Cancer Cell Antiproliferative Properties”;J. Agric. Food Chem. 2008
--A.M. Panico,et al; “Antioxidant activity and phenolic content of strawberry genotypes from

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Fragaria x ananassa";Pharmaceutical Biology, 2009

--Ji-Young HONG,et al; "Antioxidant, Antiinflamatory, and Antiproliferative Activities of Strawberry Extracts";Biomolecules & Therapeutics 2008

--Ranganatha R. Somasagara,et al; "Extracts of Strawberry Fruits Induce Intrinsic Pathway of Apoptosis in Breast Cancer Cells and Inhibits Tumor Progression in Mice"; PLoS ONE 2012

--Jenkins DJ,et al; "The effect of strawberries in a cholesterol-lowering dietary portfolio";Metabolism. 2008

--José M. Alvarez-Suarez,et al; "One-month strawberry-rich anthocyanin supplementation ameliorates cardiovascular risk, oxidative stress markers and platelet activation in humans";The Journal of Nutritional Biochemistry 2014

--Strawberries;The George Mateljan Foundation;
http://www.whfoods.com/genpage.php?tname=foodspice&dbid=32

--Pinto Mda S,et al; "Evaluation of antiproliferative, anti-type 2 diabetes, and antihypertension potentials of ellagitannins from strawberries (Fragaria × ananassa Duch.) using in vitro models";J Med Food. 2010

--Moazen S,et al; "Effects of Freeze-Dried Strawberry Supplementation on Metabolic Biomarkers of Atherosclerosis in Subjects with Type 2 Diabetes: A Randomized Double-Blind Controlled Trial";Annals of Nutrition and Metabolism 2013