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Hypericum perforatum Health effects and herbal facts

Known as

goatweed Klamathweed perforate St. John's-wort racecourseweed St. John's-wort Tiptonweed

Common St John's wort is a flowering plant species of the genus Hypericum. It is a medicinal herb with antidepressant properties and potential antibacterial and anti-inflammatory properties. Extracts of St John's wort can be used as a treatment for depression. However, it is toxic to livestock when ingested and is considered a weed when growing wild. Hypericum perforatum is indigenous to Europe but has spread worldwide as an invasive species, including to temperate and subtropical regions of Turkey, Ukraine, Russia, the Middle East, India, and China. Other names for St John's wort include Tipton's weed, rosin rose, goatweed, chase-devil, or Klamath weed. In common speech, the name St John's wort may be used to refer to any species of the genus Hypericum. Therefore, H. perforatum is sometimes called Common St John's wort or Perforate St John's wort in order to differentiate it.



Medical use

Abortifacient Alopecia Anodyne Antibiotic Antiseptic Astringent Bactericide Cancer(Stomach) Catarrh Cholagogue Depression Diarrhea Digestive Diuretic Emmenagogue Expectorant Gastrointestinal Kidney Lumbago Lung Nervine Phototoxic Poison Resolvent Rheumatism Sore Stimulant Sunburn Swelling Tumor Urogenital Uterotonic Vermicide Vermifuge Vulnerary Wound

Economic importance of Hypericum perforatum

Materialsesential oils lipidsMedicinessource of hypericin

Vertebrate poisons mamals

Weed potential sed contaminant

Gallery



Geografical distribution

• AFRICA

Native

- o Macaronesia: Portugal Madeira Islands; Spain Canary Islands
- o Northern Africa: Algeria ; Morocco; Tunisia

Naturalized

- Northeast Tropical Africa: Sudan Darfur
- o Southern Africa: Lesotho; South Africa Western Cape
- o Western Indian Ocean: Reunion

• ASIA-TEMPERATE

Native

- o Arabian Peninsula: Saudi Arabia
- Western Asia: Afghanistan; Cyprus; Iran; Iraq; Israel; Lebanon; Syria; Turkey
- Caucasus: Armenia; Azerbaijan; Georgia; Russian Federation -Dagestan, Karachay-Cherkessia, North Ossetia, Stavropol
- o Siberia: Russian Federation Western Siberia
- Middle Asia: Kazakhstan; Kyrgyzstan; Tajikistan; Turkmenistan; Uzbekistan
- Mongolia: Mongolia
- China: China Gansu, Guizhou, Hebei, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Shaanxi, Shandong, Shanxi, Sichuan, Xinjiang, Yunnan

Naturalized

o Eastern Asia: Japan

Cultivated

o Siberia: Russian Federation - Western Siberia

• ASIA-TROPICAL

Native

• Indian Subcontinent: India - Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh; Pakistan

• AUSTRALASIA

Naturalized

- o Australia: Australia
- New Zealand: New Zealand

• EUROPE

Native

• Northern Europe: Denmark; Finland; Ireland; Norway; Sweden;

- United Kingdom England, Scotland, Wales
- Middle Europe: Austria; Belgium; Czech Republic; Germany; Hungary; Netherlands; Poland; Slovakia; Switzerland
- East Europe: Belarus; Estonia; Russian Federation Astrakhan, European part; Ukraine
- Southeastern Europe: Albania; Bosnia and Herzegovina; Bulgaria; Croatia; Greece; Italy; Macedonia; Malta; Montenegro; Romania; Serbia; Slovenia
- o Southwestern Europe: Andorra; France ; Gibraltar; Portugal; Spain Cultivated
 - o Middle Europe: Germany; Poland; Switzerland
 - East Europe: Belarus
 - Southeastern Europe: Italy

• NORTHERN AMERICA

Naturalized

- Canada
- Mexico
- United States

• PACIFIC

Naturalized

o North-Central Pacific: United States - Hawaii

• SOUTHERN AMERICA

Naturalized

- o Caribbean: Cuba; Haiti
- Southern South America: Argentina; Chile; Uruguay

Biological activities

11B-HSD-Inhibitor	<u>Kaempferol</u> found in Plant <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in Shoot; found in Leaf
<u>5-Alpha-Reductase-</u> <u>Inhibitor</u>	Palmitic-acid found in Plant Stearic-acid found in Plant
5-HT-Inhibitor	Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)
<u>5-Lipoxygenase-Inhibitor</u>	(-)-epicatechin found in Plant Kaempferol found in Plant Quercetin found in Flower (1000 ppm);found in Plant (20000 ppm);found in Stem ;found in Shoot ;found in Leaf
AChE-Inhibitor	<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf Essent. Oil

Ouercetin found in Flower (1000 ppm); found in ATPase-Inhibitor Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Pyrogallol found in Plant **Abortifacient**

> Alpha-terpinene found in Plant (18 ppm) Gamma-terpinene found in Plant (27 ppm) Limonene found in Fruit Essent. Oil ;found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Alpha-terpinene found in Plant (18 ppm) Alpha-terpineol found in Plant (54 ppm)

Amentoflavone found in Flower (500 ppm); found

in Shoot

Ascorbic-acid found in Leaf; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Chlorogenic-acid found in Leaf ; found in Plant Cinnamic-acid found in Plant

Aldose-Reductase-Inhibitor Delta-cadinene found in Plant (9 ppm)

Gamma-terpinene found in Plant (27 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercitrin found in Flower; found in Plant

(mgg 000E)

Kaempferol found in Plant

Luteolin found in Plant

Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-coumaric-acid found in Plant

Aldehyde-Oxidase-Inhibitor

Acaricide

Acidulant

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Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in Shoot; found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant
Umbelliferone found in Plant
Vanillic-acid found in Plant

(-)-epicatechin found in Plant

<u>Alpha-pinene</u> found in Shoot Essent. Oil ;found in Leaf Essent. Oil ;found in Plant (245

ppm);found in Fruit Essent. Oil Borneol found in Plant (2.7 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Cvanidin found in Plant

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Myricetin found in Plant Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem ; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant Umbelliferone found in Plant

<u>Alpha-terpineol</u> found in Plant (54 ppm) Camphene found in Plant (18 ppm)

Ferulic-acid found in Plant
P-coumaric-acid found in Plant

<u>Terpinen-4-ol</u> found in Plant (9 ppm)

Vanillic-acid found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ;found in Plant (245

ppm); found in Fruit Essent. Oil

Beta-carotene found in Shoot (12.1 ppm)

<u>Beta-pinene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (6055 ppm);found in Leaf

Essent. Oil

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Allelochemic

Allelopathic

<u>Allergenic</u>

<u>Caryophyllene</u> found in Essential Oil ;found in Plant (468 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Cinnamic-acid found in Plant

Geraniol found in Plant (72 ppm)

Geranyl-acetate found in Plant (432 ppm)

<u>Limonene</u> found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm)

Mannitol found in Plant (20000 ppm)

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Pinene found in Essential Oil

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Gaba found in Plant (700 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-amyrin found in Shoot

Borneol found in Plant (2.7 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Ferulic-acid found in Plant Gallic-acid found in Plant Gentisic-acid found in Plant

<u>Hyperoside</u> found in Flower (6570 ppm); found

in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf Linalool found in Plant (45 ppm)

Mannitol found in Plant (20000 ppm)

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-cymene found in Plant (9 ppm)

Phenol found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Scopoletin found in Plant

Analeptic

Analgesic

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Beta-sitosterol found in Plant : found in Shoot **Androgenic**

Cinnamic-acid found in Plant

Linalool found in Plant (45 ppm) Anesthetic

Phenol found in Plant Scopoletin found in Plant

Beta-sitosterol found in Plant ; found in Shoot **Angiogenic**

Ascorbic-acid found in Leaf ; found in Seed (395 Angiotensin-Receptorppm); found in Shoot (16.5 ppm); found in Plant Blocker

(1300 ppm)

Beta-sitosterol found in Plant ; found in Shoot Anorexic

Geraniol found in Plant (72 ppm)

Mannitol found in Plant (20000 ppm) Anthelmintic

Vanillic-acid found in Plant

Ascorbic-acid found in Leaf :found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant **AntiAGE**

(1300 ppm)

Cysteine found in Plant AntiAddisonian

Ascorbic-acid found in Leaf ; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant AntiCFS

(1300 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 **AntiCTS** ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Proanthocyanidins found in Plant (120000 ppm) Rutin found in Flower (2800 ppm); found in Leaf

AntiCVI (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

(-)-epicatechin found in Plant

Beta-eudesmol found in Plant (32 ppm) **AntiEBV**

Chlorogenic-acid found in Leaf; found in Plant

Geranial found in Plant (6.3 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in **AntiGTF**

Shoot :found in Leaf

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm) <u>AntiLegionella</u>

Chlorogenic-acid found in Leaf ; found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395)

ppm); found in Shoot (16.5 ppm); found in Plant **AntiLyme**

(1300 ppm)

Gallic-acid found in Plant **AntiMRSA** Phenol found in Plant **AntiMS**

AntiPMS

Antiacne

Antiadenomic

Beta-carotene found in Shoot (12.1 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Antiacetylcholine Borneol found in Plant (2.7 ppm)

Alpha-terpinene found in Plant (18 ppm)

Elemol found in Plant (4.5 ppm)

Gamma-terpinene found in Plant (27 ppm) Limonene found in Fruit Essent. Oil ;found in

<u>Antiacetylcholinesterase</u> Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm) P-cymene found in Plant (9 ppm) Terpinen-4-ol found in Plant (9 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpineol found in Plant (54 ppm) Beta-carotene found in Shoot (12.1 ppm)

Caryophyllene found in Essential Oil ; found in

Plant (468 ppm)

Delta-cadinene found in Plant (9 ppm) Terpinen-4-ol found in Plant (9 ppm)

Beta-sitosterol found in Plant ; found in Shoot Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Caffeic-acid found in Plant (1000 ppm); found in Antiadenoviral

Shoot (1000 ppm)

Gallic-acid found in Plant Antiadenovirus **Antiadrenergic** Scopoletin found in Plant

Geranial found in Plant (6.3 ppm)

Kaempferol found in Plant

Ouercetin found in Flower (1000 ppm); found in Antiaflatoxin Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf Scopoletin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Antiaging

Plant (20000 ppm); found in Leaf

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Antialcoholic</u> <u>Glutamine</u> found in Plant <u>Antialkalotic</u> <u>Lysine</u> found in Plant

<u>Antiallergenic</u> <u>Gallic-acid</u> found in Plant <u>Myricetin</u> found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Ferulic-acid</u> found in Plant <u>Kaempferol</u> found in Plant

Linalool found in Plant (45 ppm)

<u>Luteolin</u> found in Plant Opcs found in Plant

Antiallergic Procyanidins found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm) Terpinen-4-ol found in Plant (9 ppm)

Palmitic-acid found in Plant

Antialopecic Proanthocyanidins found in Plant (120000 ppm)

<u>Ascorbic-acid</u> found in Leaf ;found in Seed (395 ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Antialzheimeran Choline found in Leaf ;found in Plant ;found in

Shoot (1000 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

(-)-epicatechin found in Plant Gallic-acid found in Plant

Linalool found in Plant (45 ppm)

Antianaphylactic Opcs found in Plant

Procyanidins found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Beta-sitosterol found in Plant ; found in Shoot

Palmitic-acid found in Plant

<u>Antiandrogenic</u>

Antianemic

<u>Hypericin</u> found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm);found in Fruit (730 ppm);found in Flower (18000 ppm);found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Gallic-acid found in Plant Luteolin found in Plant

Antiangiogenic Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

<u>Antianoxic</u> <u>Beta-eudesmol</u> found in Plant (32 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

<u>Antiapoplectic</u> (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Ferulic-acid found in Plant

Antiarrhythmic Quercitrin found in Flower (3380 ppm); found in

Leaf ; found in Plant ; found in Shoot (5240 ppm)

Scopoletin found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Antiarthritic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Gallic-acid found in Plant

Antiasthmatic Limonene found in Fruit Essent. Oil ; found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Opcs found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Luteolin found in Plant

<u>Antiatherogenic</u>

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Opcs found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Pectin found in Plant Antiatheromic

> Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Chlorogenic-acid found in Leaf :found in Plant

Lutein found in Flower

Proanthocyanidins found in Plant (120000 ppm)

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

P-cymene found in Plant (9 ppm) **Antibacillary**

(-)-epicatechin found in Plant

Acetophenone found in Plant (2.25 ppm) Alpha-phellandrene found in Plant (5.4 ppm) Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpineol found in Plant (54 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-sitosterol found in Plant ; found in Shoot

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Chlorophyll found in Plant

Cinnamic-acid found in Plant

Delta-cadinene found in Plant (9 ppm)

Ferulic-acid found in Plant

Gallic-acid found in Plant Gentisic-acid found in Plant

Geranial found in Plant (6.3 ppm)

Geraniol found in Plant (72 ppm)

Hyperforin found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in

Antiatherosclerotic

Antibacterial

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Fruit : found in Leaf

<u>Hypericin</u> found in Cotyledon (14.5 ppm); found in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in

Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

<u>Isoquercitrin</u> found in Flower ;found in Plant (3000 ppm)

Kaempferol found in Plant

 $\underline{\text{Limonene}}$ found in Fruit Essent. Oil ;found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

<u>Linalool</u> found in Plant (45 ppm)

Luteolin found in Plant

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Myricetin found in Plant

Neral found in Plant (6.3 ppm)

Nerol found in Plant (18 ppm)

Opcs found in Plant

P-coumaric-acid found in Plant

P-cymene found in Plant (9 ppm)

P-hydroxy-benzoic-acid found in Plant

Pectin found in Plant

Phenol found in Plant

Pinene found in Essential Oil

Proanthocyanidins found in Plant (120000 ppm)

Procyanidins found in Plant

Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem ; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

<u>Umbelliferone</u> found in Plant

Vanillic-acid found in Plant

Antibradykinic

Cysteine found in Plant

<u>Hyperforin</u> found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in

Antibiotic Fruit ; found in Leaf

Opes found in Plant

Procyanidins found in Plant

Amentoflavone found in Flower (500 ppm); found

in Shoot

Antibronchitic Borneol found in Plant (2.7 ppm)

Gallic-acid found in Plant

<u>Antibronchoconstrictor</u> <u>Scopoletin</u> found in Plant

<u>Alpha-terpineol</u> found in Plant (54 ppm) <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

<u>Chlorophyll</u> found in Plant <u>Gallic-acid</u> found in Plant

<u>Hyperoside</u> found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

<u>Anticancer</u> <u>Isoquercitrin</u> found in Flower ;found in Plant

(3000 ppm)

Kaempferol found in Plant

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent, Oil

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Vanillic-acid found in Plant

<u>Hyperoside</u> found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Anticapillary-Fragility
Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

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Shoot (1000 ppm)

<u>Anticarcinogenic</u> <u>Chlorogenic-acid</u> found in Leaf ;found in Plant

<u>Ferulic-acid</u> found in Plant <u>Luteolin</u> found in Plant

Beta-carotene found in Shoot (12.1 ppm)

Anticarcinomic Gallic-acid found in Plant

Luteolin found in Plant

Anticataract

Anticervicaldysplasic

<u>Antichilblain</u>

Anticlimacteric

Alpha-terpineol found in Plant (54 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Delta-cadinene found in Plant (9 ppm)

<u>Anticariogenic</u> <u>Geraniol</u> found in Plant (72 ppm)

<u>Linalool</u> found in Plant (45 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Cysteine</u> found in Plant Luteolin found in Plant

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) <u>Rutin</u> found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Stelli , found in Shoo (10000 ppm); found in Plant (16000 ppm)

<u>Anticephalagic</u> <u>Gaba</u> found in Plant (700 ppm) <u>Anticerebrotic</u> <u>Gaba</u> found in Plant (700 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Beta-carotene</u> found in Shoot (12.1 ppm) <u>Nicotinic-acid</u> found in Leaf (1200 ppm)

Anticholesteremic Ornithine found in Plant
Anticholinergic Scopoletin found in Plant

Choline found in Leaf ; found in Plant ; found in

Antichoreic Shoot (1000 ppm)

Gaba found in Plant (700 ppm)

Anticirrhotic Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

P-coumaric-acid found in Plant

Pyrogallol found in Plant

<u>Anticlastogen</u> <u>Rutin</u> found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Anticonvulsant

Antidecubitic

<u>Antidepressant</u>

Ascorbic-acid found in Leaf ; found in Seed (395 **Anticold** ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Linalool</u> found in Plant (45 ppm) **Anticolic**

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in **Anticolitic**

Shoot :found in Leaf

Gaba found in Plant (700 ppm) Linalool found in Plant (45 ppm)

Mvrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Beta-carotene found in Shoot (12.1 ppm) **Anticoronary**

Choline found in Leaf ; found in Plant ; found in Anticystinuric

Shoot (1000 ppm)

Ouercetin found in Flower (1000 ppm); found in **Anticystitic**

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf Anticytomegalic (1950 ppm); found in Fruit (730 ppm); found in

Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

Cysteine found in Plant **Anticytotoxic**

Ascorbic-acid found in Leaf; found in Seed (395)

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Chlorophyll found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Choline found in Leaf ; found in Plant ; found in Antidementia

Shoot (1000 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Glutamine found in Plant

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm) Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Xanthones found in Plant (12.8 ppm)

Luteolin found in Plant Antidermatic

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Mangiferin found in Plant; found in Shoot

Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

(-)-epicatechin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Mangiferin found in Plant ; found in Shoot

Pectin found in Plant

Proanthocyanidins found in Plant (120000 ppm) Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Pectin found in Plant

Choline found in Leaf ; found in Plant ; found in Antidyskinetic

Shoot (1000 ppm)

Antidermatitic

Antidiabetic

Antidiarrheic

cum perforatum - Health effect	s and herb http://v	www.naturalmedicinefacts.info/plant/hype	
<u>Antidysmenorrheic</u>	<u>Ferulic-acid</u> found ir	ı Plant	
Antieczemic	Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)		
Antiedemic	Amentoflavone found in Shoot Ascorbic-acid found ppm); found in Shoot (1300 ppm) Beta-amyrin found in Beta-sitosterol found in Shoot (1000 ppm) Caffeic-acid found in Shoot (1000 ppm) Caryophyllene found Plant (468 ppm) Isoferulic-acid found in Plant Opcs found in Plant Proanthocyanidins found in Plant Procyanidins found in Plant Rutin found in Flowe (3000 ppm); found in (10000 ppm); found in Scopoletin found in Taraxasterol found in	Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm) Beta-amyrin found in Shoot Beta-sitosterol found in Plant; found in Shoot Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm) Caryophyllene found in Essential Oil; found in Plant (468 ppm) Isoferulic-acid found in Plant Linalool found in Plant (45 ppm)	
<u>Antielastase</u>	Shoot (1000 ppm) Hyperoside found in in Stem; found in Shoot (20000 ppm); found in Shoot (3000 ppm) Quercetin found in Flant (20000 ppm); found in Leaf	Flower (1000 ppm); found in Flower (6570 ppm); found to the found in Leaf in Flower ; found in Plant Flower (1000 ppm); found in cound in Stem; found in	

ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Leucine found in Plant Antiencephalopathic Ornithine found in Plant

Antiencephalitic

Ascorbic-acid found in Leaf ;found in Seed (395
Antiendometriotic ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

<u>Antienteritic</u> <u>Pectin</u> found in Plant

Opcs found in Plant

Procyanidins found in Plant

Antierythemic Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Borneol found in Plant (2.7 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

<u>Antiescherichic</u> <u>Gallic-acid</u> found in Plant

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Limonene</u> found in Fruit Essent. Oil ;found in Antiesophagitic

Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Beta-sitosterol found in Plant ; found in Shoot

<u>Ferulic-acid</u> found in Plant Luteolin found in Plant

Antiestrogenic Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf
Opcs found in Plant

Antiexudative Procyanidins found in Plant

Ascorbic-acid found in Leaf; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Vanillic-acid found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm);found in Fruit Essent. Oil

Beta-sitosterol found in Plant ; found in Shoot

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Cadinene found in Essential Oil

<u>Caryophyllene</u> found in Essential Oil ;found in

Plant (468 ppm)

<u>Caryophyllene-epoxide</u> found in Plant (9 ppm) <u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Gamma-terpinene</u> found in Plant (27 ppm)

Gentisic-acid found in Plant

Isoquercitrin found in Flower; found in Plant

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Antifeedant

Antifatique

(mgg 000E)

Limonene found in Fruit Essent. Oil ;found in Shoot :found in Plant (90 ppm); found in Leaf

Essent, Oil

Luteolin found in Plant

Myricetin found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf : found in Plant : found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Beta-sitosterol found in Plant ; found in Shoot

Kaempferol found in Plant P-coumaric-acid found in Plant

Gallic-acid found in Plant Palmitic-acid found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ascorbic-acid found in Leaf ; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Mangiferin found in Plant; found in Shoot

Alpha-pinene found in Shoot Essent. Oil ;found in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm)

Gallic-acid found in Plant

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm) Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Neryl-acetate found in Plant (18 ppm)

Antifertility

Antifibrinolytic

Antifibrosarcomic

Antifibrotic

Antiflu

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Antigallstone

Antigliomic

P-cymene found in Plant (9 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) <u>Ascorbic-acid</u> found in Leaf; found in Seed (395)

ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

<u>Pectin</u> found in Plant <u>Myricetin</u> found in Plant

Antigastric Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Antigastritic Opes found in Plant

Pectin found in Plant

Procyanidins found in Plant

Antigenotoxic Chlorogenic-acid found in Leaf; found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Antigingivitic</u> (1300 ppm)

<u>Kaempferol</u> found in Plant <u>Myricetin</u> found in Plant

Ascorbic-acid found in Leaf ;found in Seed (395 ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Antiglaucomic Mannitol found in Plant (20000 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Stelli ; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Beta-elemene found in Plant (4.5 ppm)

Antiglutamaergic Linalool found in Plant (45 ppm)

Antigonadotrophic Beta-sitosterol found in Plant; found in Shoot

Myricetin found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Antigonadotropic Chlorogenic-acid found in Leaf; found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Antihalitosic Chlorophyll found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395 <u>Antihangover</u> ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Nerol found in Plant (18 ppm) Antihelicobacter

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Ouercitrin found in Flower (3380 ppm); found in Leaf : found in Plant : found in Shoot (5240 ppm)

Phenol found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

(-)-epicatechin found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Mangiferin found in Plant ; found in Shoot

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf :found in Plant

Ferulic-acid found in Plant Gallic-acid found in Plant

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Mangiferin found in Plant; found in Shoot

P-coumaric-acid found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Ouercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf

Antihematuric

Antihemolytic

Antihemorrhagic

Antihemorrhoidal

Antihepatitic

Antihepatoadenomic

Antihepatotic

<u>Antihepatotoxic</u>

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm) Scopoletin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)

<u>Caffeic-acid</u> found in Plant (1000 ppm); found in Shoot (1000 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Ferulic-acid found in Plant

Gallic-acid found in Plant

Hypericin found in Cotyledon (14.5 ppm); found in Stem (210 ppm); found in Shoot (1780 ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

(19 ppm); found in Essential Oil (2200 ppm)

Kaempferol found in Plant

Luteolin found in Plant

Lysine found in Plant

Mangiferin found in Plant; found in Shoot

Procyanidins found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)

<u>Caffeic-acid</u> found in Plant (1000 ppm); found in Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Kaempferol found in Plant

Linalool found in Plant (45 ppm)

Luteolin found in Plant

Myricetin found in Plant

Opcs found in Plant

Proanthocyanidins found in Plant (120000 ppm)

Procyanidins found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Antiherpetic

Antihistaminic

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Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Umbelliferone found in Plant

Choline found in Leaf ; found in Plant ; found in Antihomocysteine

Shoot (1000 ppm)

Phenol found in Plant. Antihydrocoele

Quercetin found in Flower (1000 ppm); found in

Antihydrophobic Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Caffeic-acid found in Plant (1000 ppm); found in

Antihypercholesterolemic Shoot (1000 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

(-)-epicatechin found in Plant <u>Antihyperglycemic</u>

Antihyperkeratotic Beta-carotene found in Shoot (12.1 ppm)

Antihyperlipoproteinaemic Beta-sitosterol found in Plant :found in Shoot

Ascorbic-acid found in Leaf ; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Gaba found in Plant (700 ppm)

Quercetin found in Flower (1000 ppm); found in Antihypertensive

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm) Antihyperthyroid

Chlorogenic-acid found in Leaf; found in Plant

Beta-carotene found in Shoot (12.1 ppm) Antiichythyotic

Antiimplantation Kaempferol found in Plant

Antiincontinence Phenol found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395)

ppm); found in Shoot (16.5 ppm); found in Plant **Antiinfertility**

(1300 ppm)

Antiinsomniac Gaba found in Plant (700 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Antiischemic

Plant (20000 ppm); found in Leaf

Proanthocyanidins found in Plant (120000 ppm) Caryophyllene found in Essential Oil; found in

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Plant (468 ppm) Antileishmanic

Antilepric

Antileukemic

Gallic-acid found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Antilethargic</u> <u>Gaba</u> found in Plant (700 ppm)

(-)-epicatechin found in Plant

Amentoflavone found in Flower (500 ppm); found

in Shoot

<u>Beta-sitosterol</u> found in Plant; found in Shoot Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Ferulic-acid found in Plant

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm);found in Fruit (730 ppm);found in Flower (18000 ppm);found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Kaempferol found in Plant

Linalool found in Plant (45 ppm)

Luteolin found in Plant

P-coumaric-acid found in Plant

Pseudohypericin found in Cotyledon (164.9 ppm); found in Shoot (40 ppm); found in Plant ; found in Leaf ; found in Flower (5800 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem ; found in

Shoot :found in Leaf

Vanillic-acid found in Plant

<u>Antileukoplakic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

(-)-epicatechin found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

<u>Antileukotriene</u> <u>Chlorogenic-acid</u> found in Leaf ;found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Antileukotrienogenic Scopoletin found in Plant

(-)-epicatechin found in Plant

Beta-carotene found in Shoot (12.1 ppm)

Antilipoperoxidant Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Antilithic Limonene found in Fruit Essent. Oil ;found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Pectin found in Plant

Antilupus

Beta-carotene found in Shoot (12.1 ppm)

Pyrogallol found in Plant

<u>Antilymphocytic</u> <u>Kaempferol</u> found in Plant

<u>Beta-sitosterol</u> found in Plant; found in Shoot <u>Limonene</u> found in Fruit Essent. Oil; found in Shoot; found in Plant (90 ppm); found in Leaf

Antilymphomic Essent. Oil

Linalool found in Plant (45 ppm)

Luteolin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Antimaculitic</u> (1300 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Lutein found in Flower

<u>Alpha-selinene</u> found in Plant (18 ppm) <u>Beta-selinene</u> found in Plant (27 ppm)

Humulene found in Essential Oil; found in Plant Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stom, found in

Antimalarial Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Antimange Linalool found in Plant (45 ppm)

Antimanic Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Antimastitic Beta-carotene found in Shoot (12.1 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Geraniol found in Plant (72 ppm)

Antimelanomic <u>Luteolin</u> found in Plant

Quercetin found in Flower (1000 ppm); found in

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Antimeasles

Antimelanogenic

Antimigraine

Antimyocarditic

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant Antimenopausal

(1300 ppm)

Chlorophyll found in Plant Antimenorrhagic

Pectin found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf Antimetastatic

> Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Linalool found in Plant (45 ppm) **Antimite**

Ferulic-acid found in Plant Antimitotic Umbelliferone found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ferulic-acid found in Plant Antineoplastic

Mannitol found in Plant (20000 ppm)

Rutin found in Flower (2800 ppm); found in Leaf Antinephritic

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 Antineuramidase

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Alpha-terpinene found in Plant (18 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf :found in Plant

Ferulic-acid found in Plant Gallic-acid found in Plant

Antinitrosaminic Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-coumaric-acid found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Ascorbic-acid found in Leaf ;found in Seed (395
Antinitrosic ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Amentoflavone found in Flower (500 ppm); found

in Shoot

Beta-amyrin found in Shoot

Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

<u>Hyperoside</u> found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercitrin found in Flower; found in Plant

(3000 ppm)

Antinociceptive Luteolin found in Plant

<u>Myrcene</u> found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Antinyctalopic</u> <u>Lutein</u> found in Flower

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Antiobesity Limonene found in Fruit Essent. Oil ; found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Opcs found in Plant
Pectin found in Plant
Phanel found in Plant

<u>Antionychogryphotic</u> <u>Phenol</u> found in Plant

Antionychyotic Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Antiophidic Beta-sitosterol found in Plant ;found in Shoot Caffeic-acid found in Plant (1000 ppm);found in

Shoot (1000 ppm)

<u>Antiophthalmic</u> <u>Cysteine</u> found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395

Antiorchitic ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Ascorbic-acid found in Leaf ;found in Seed (395
Antiosteoarthritic ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Ascorbic-acid found in Leaf ;found in Seed (395
Antiosteoporotic ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Borneol found in Plant (2.7 ppm)

<u>Antiotitic</u> <u>Chlorophyll</u> found in Plant

Phenol found in Plant

<u>Antiozenic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Quercetin found in Flower (1000 ppm); found in

<u>Antipancreatitic</u> Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Antipapillomic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Antiparkinsonian</u> ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Ascorbic-acid found in Leaf ;found in Seed (395
Antiparotitic ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

<u>Antipeptic</u> <u>Beta-eudesmol</u> found in Plant (32 ppm)

<u>Proanthocyanidins</u> found in Plant (120000 ppm) <u>Quercetin</u> found in Flower (1000 ppm); found in

Antiperiodontal Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Antiperiodontic Kaempferol found in Plant

Myricetin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

Antiperiodontitic (1300 ppm)

<u>Antipharyngitic</u>

Gallic-acid found in Plant

Quercetin found in Flower (1000 ppm); found in

Antiperistaltic Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercetin found in Flower (1000 ppm); found in

Antipermeability Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

<u>Antiphotophobic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

<u>Antipityriasic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Kaempferol found in Plant Myricetin found in Plant

Proanthocyanidins found in Plant (120000 ppm) Antiplaque Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Alpha-selinene found in Plant (18 ppm) Beta-selinene found in Plant (27 ppm)

Humulene found in Essential Oil ; found in Plant **Antiplasmodial**

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf Antiplatelet

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Alpha-pinene found in Shoot Essent. Oil ; found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Antipneumonic Ascorbic-acid found in Leaf ; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Ascorbic-acid found in Leaf; found in Seed (395)

ppm); found in Shoot (16.5 ppm); found in Plant

(mgg 0081)

Antipodriac Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Chlorogenic-acid found in Leaf ; found in Plant

Gallic-acid found in Plant Luteolin found in Plant

Antipolio Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ascorbic-acid found in Leaf ; found in Seed (395 **Antipoliomyelitic**

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-carotene found in Shoot (12.1 ppm) <u>Antiporphyric</u>

Antiprogestational Beta-sitosterol found in Plant ; found in Shoot

> Alpha-terpineol found in Plant (54 ppm) Beta-carotene found in Shoot (12.1 ppm) Beta-elemene found in Plant (4.5 ppm)

Caffeic-acid found in Plant (1000 ppm); found in **Antiproliferant**

Shoot (1000 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Antiproliferative

Antiprostanoid

Antipurpuric

<u>Lutein</u> found in Flower <u>Luteolin</u> found in Plant

<u>Proanthocyanidins</u> found in Plant (120000 ppm) <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm);found in Fruit (730 ppm);found in Flower (18000 ppm);found in Flower Essent. Oil (19 ppm);found in Essential Oil (2200 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Antiprostatadenomic</u> <u>Beta-sitosterol</u> found in Plant ;found in Shoot

Beta-sitosterol found in Plant ; found in Shoot

Phenol found in Plant

<u>Antiprostatitic</u> <u>Quercetin</u> found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Antiprostatotic</u> <u>Phytosterols</u> found in Plant

<u>Antiproteolytic</u> <u>Gallic-acid</u> found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

<u>Antiprotozoal</u> (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Pyrogallol found in Plant

Antipsoriac Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Stem; found in Snoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

Antipyretic (1300 ppm)

Beta-sitosterol found in Plant; found in Shoot

Borneol found in Plant (2.7 ppm)

Antiretinotic

Antiretroviral

Antirhinitic

<u>Antipyruvetic</u> <u>Phenol</u> found in Plant

<u>Antiretinopathic</u> <u>Proanthocyanidins</u> found in Plant (120000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm);found in Fruit (730 ppm);found in Flower (18000 ppm);found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Isoquercetin found in Plant

<u>Antirheumatalgic</u> <u>P-cymene</u> found in Plant (9 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Antirheumatic</u> (1300 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Gentisic-acid found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Chlorophyll found in Plant

<u>Antirhinoviral</u> <u>Ar-curcumene</u> found in Plant (9 ppm)

Beta-eudesmol found in Plant (32 ppm)

Antisalmonella Borneol found in Plant (2.7 ppm)

Geraniol found in Plant (72 ppm)

Antischizophrenic Nicotinic-acid found in Leaf (1200 ppm)

Ascorbic-acid found in Leaf ;found in Seed (395

Antiscorbutic ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpineol found in Plant (54 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Antiseptic</u> <u>Beta-pinene</u> found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (6055 ppm);found in Leaf

Essent. Oil

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Gallic-acid found in Plant

Geraniol found in Plant (72 ppm)

Kaempferol found in Plant

Limonene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm)

Myricetin found in Plant

Nerol found in Plant (18 ppm) P-coumaric-acid found in Plant

Phenol found in Plant

Phloroglucinol found in Plant ; found in Shoot

Pinene found in Essential Oil

Proanthocyanidins found in Plant (120000 ppm)

Pyrogallol found in Plant Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Umbelliferone found in Plant Vanillic-acid found in Plant

Xanthones found in Plant (12.8 ppm)

Ferulic-acid found in Plant Kaempferol found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Linalool found in Plant (45 ppm)

Glutamine found in Plant

P-hydroxy-benzoic-acid found in Plant

Vanillic-acid found in Plant

Chlorophyll found in Plant

Phenol found in Plant.

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpinene found in Plant (18 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-pinene found in Fruit Essent. Oil ;found in **Antispasmodic**

Shoot; found in Plant (6055 ppm); found in Leaf

Essent, Oil

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil ;found in

Antiserotonin

Antishingles

Antishock

Antisickling

Antisinusitic

Plant (468 ppm)

Cinnamic-acid found in Plant

Ferulic-acid found in Plant

Geraniol found in Plant (72 ppm)

Kaempferol found in Plant

Limonene found in Fruit Essent. Oil ;found in

Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm)

Luteolin found in Plant

Mangiferin found in Plant ; found in Shoot

Mannitol found in Plant (20000 ppm)

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Neral found in Plant (6.3 ppm)

P-coumaric-acid found in Plant

Phloroglucinol found in Plant ; found in Shoot

Pinene found in Essential Oil

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in

Leaf ; found in Plant ; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Umbelliferone found in Plant

Phenol found in Plant Antispastic

Alpha-phellandrene found in Plant (5.4 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Borneol found in Plant (2.7 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Gallic-acid found in Plant

Kaempferol found in Plant

Quercitrin found in Flower (3380 ppm); found in

Leaf; found in Plant; found in Shoot (5240 ppm)

Umbelliferone found in Plant

Antistaphylococcic

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Choline found in Leaf ; found in Plant ; found in Antisteatotic

Shoot (1000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm) Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

<u>Delta-cadinene</u> found in Plant (9 ppm)

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ascorbic-acid found in Leaf ; found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Gaba found in Plant (700 ppm)

<u>Proanthocyanidins</u> found in Plant (120000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf :found in Plant Antisunburn

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Quercetin found in Flower (1000 ppm); found in Antithiamin

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ferulic-acid found in Plant

Ouercetin found in Flower (1000 ppm); found in Antithrombic

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in

Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Antistomatitic

Antistreptococcic

Antistress

Antistroke

Antisyndrome-X

Antithrombogenic

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Antithyroid Chlorogenic-acid found in Leaf ;found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Antithyrotoxic</u> <u>Nicotinic-acid</u> found in Leaf (1200 ppm)

<u>Antitinnitic</u> <u>Gaba</u> found in Plant (700 ppm)

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Antitrypanosomic Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Antitubercular</u> <u>Geraniol</u> found in Plant (72 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

<u>Ferulic-acid</u> found in Plant <u>Gallic-acid</u> found in Plant

Isoquercitrin found in Flower ; found in Plant

(3000 ppm)

Antitumor-Promoter Kaempferol found in Plant

Phloroglucinol found in Plant; found in Shoot Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Vanillic-acid found in Plant

<u>Alpha-humulene</u> found in Plant (18 ppm) <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Chlorogenic-acid found in Leaf; found in Plant

<u>Cysteine</u> found in Plant <u>Ferulic-acid</u> found in Plant <u>Gallic-acid</u> found in Plant

Geraniol found in Plant (72 ppm)

Isoquercitrin found in Flower; found in Plant

(3000 ppm)

Kaempferol found in Plant

Antitumor

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<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf Essent. Oil

Luteolin found in Plant

P-coumaric-acid found in Plant

<u>Proanthocyanidins</u> found in Plant (120000 ppm) <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant Vanillic-acid found in Plant

Hyperin found in Plant (5500 ppm)

<u>Hyperoside</u> found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

<u>Luteolin</u> found in Plant <u>Pectin</u> found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem ; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

(-)-epicatechin found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm);found in Fruit Essent. Oil

Amentoflavone found in Flower (500 ppm); found

in Shoot

Ar-curcumene found in Plant (9 ppm)

Ascorbic-acid found in Leaf ; found in Seed (395

ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

Beta-sitosterol found in Plant ; found in Shoot

Bornyl-acetate found in Plant (3.6 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Ferulic-acid found in Plant

Antitussive

<u>Antiulcerogenic</u>

Antivaccinia

Antivaricose

Antiviral

Gallic-acid found in Plant

Gentisic-acid found in Plant

Geranial found in Plant (6.3 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf

(1950 ppm); found in Fruit (730 ppm); found in

Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found

in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercetin found in Plant

Kaempferol found in Plant

Limonene found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm)

Luteolin found in Plant

Mangiferin found in Plant; found in Shoot

Myricetin found in Plant

Neryl-acetate found in Plant (18 ppm)

Nonacosane found in Plant

Opcs found in Plant

P-cymene found in Plant (9 ppm)

Phenol found in Plant

Proanthocyanidins found in Plant (120000 ppm)

Procyanidins found in Plant

Pseudohypericin found in Cotyledon (164.9

ppm);found in Shoot (40 ppm);found in Plant

found in Leaf ; found in Flower (5800 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in

Leaf ; found in Plant ; found in Shoot (5240 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Xanthones found in Plant (12.8 ppm)

Hyperoside found in Flower (6570 ppm); found in Start found in Short (40000 ppm) found in

in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Phenol found in Plant

Antixerophthalmic Beta-carotene found in Shoot (12.1 ppm)

Antiwrinkle

Anxiolytic

Borneol found in Plant (2.7 ppm) **Antiveast** Geranial found in Plant (6.3 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Gaba found in Plant (700 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Luteolin found in Plant **Aphidifuge**

> Ascorbic-acid found in Leaf; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-elemene found in Plant (4.5 ppm)

Beta-sitosterol found in Plant ; found in Shoot

Gallic-acid found in Plant

Hyperforin found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in

Fruit :found in Leaf

Kaempferol found in Plant

Limonene found in Fruit Essent. Oil ;found in **Apoptotic** Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Luteolin found in Plant Myricetin found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Kaempferol found in Plant Aromatase-Inhibitor Luteolin found in Plant

Beta-sitosterol found in Plant ; found in Shoot **Artemicide**

Arteriodilator Ferulic-acid found in Plant

Geraniol found in Plant (72 ppm) Ascaricide

Vanillic-acid found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant <u>Asthma-preventive</u>

(1300 ppm)

Gallic-acid found in Plant <u>Astringent</u>

<u>Attifuge</u> Caryophyllene-epoxide found in Plant (9 ppm)

Autotoxic Chlorogenic-acid found in Leaf ; found in Plant

Terpinen-4-ol found in Plant (9 ppm) **Bacteriostatic**

Gallic-acid found in Plant

Imanin found in Plant : found in Shoot

Ouercetin found in Flower (1000 ppm); found in **Bacteristat**

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Barbituate-Synergist Linalool found in Plant (45 ppm)

> Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

Beta-Glucuronidase-(1300 ppm)

Bradycardiac

Inhibitor Luteolin found in Plant

Proanthocyanidins found in Plant (120000 ppm)

Procvanidins found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Gallic-acid found in Plant Bronchodilator

Limonene found in Fruit Essent. Oil :found in

Bronchoprotectant Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

<u>Linalool</u> found in Plant (45 ppm) **Bronchorelaxant**

Scopoletin found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

CNS-Active Chlorogenic-acid found in Leaf; found in Plant

Pyrogallol found in Plant

<u>Linalool</u> found in Plant (45 ppm)

Phenol found in Plant

CNS-Depressant Ouercitrin found in Flower (3380 ppm); found in

Leaf; found in Plant; found in Shoot (5240 ppm)

Scopoletin found in Plant

Beta-eudesmol found in Plant (32 ppm) **CNS-Inhibitor**

Gaba found in Plant (700 ppm) Borneol found in Plant (2.7 ppm)

Chlorogenic-acid found in Leaf :found in Plant

Geraniol found in Plant (72 ppm) **CNS-Stimulant**

Mangiferin found in Plant ; found in Shoot

Scopoletin found in Plant

Borneol found in Plant (2.7 ppm) **CNS-Toxic**

(-)-epicatechin found in Plant **COMP-Inhibitor**

Myricetin found in Plant

Ouercetin found in Flower (1000 ppm); found in **COMT-Inhibitor** Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Ascorbic-acid found in Leaf; found in Seed (395) ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-eudesmol found in Plant (32 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Luteolin found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Beta-pinene found in Fruit Essent. Oil ; found in Shoot; found in Plant (6055 ppm); found in Leaf

Essent, Oil

Beta-sitosterol found in Plant ; found in Shoot

Borneol found in Plant (2.7 ppm)

Caryophyllene found in Essential Oil ; found in

Plant (468 ppm)

Ferulic-acid found in Plant Candidicide Gallic-acid found in Plant

Geraniol found in Plant (72 ppm)

Myricetin found in Plant Pyrogallol found in Plant

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Umbelliferone found in Plant

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm) Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

> Plant (20000 ppm); found in Leaf Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercitrin found in Flower; found in Plant

Calcium-Antagonist

Calmodulin-Antagonist

Candidistat

Capillarifortificant

Capillarigenic

Capillariprotective

(3000 ppm)

Leucocyanidin found in Plant

Proanthocyanidins found in Plant (120000 ppm)

Procyanidins found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Opcs found in Plant

<u>Capillaritonic</u> Procyanidins found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Gallic-acid found in Plant Kaempferol found in Plant

<u>Carcinogenic</u> <u>Phenol</u> found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Cardiac</u> <u>Ferulic-acid</u> found in Plant

Cardiodepressant Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Cardioprotective</u> (1300 ppm)

<u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Proanthocyanidins</u> found in Plant (120000 ppm)

Gaba found in Plant (700 ppm)

<u>Cardiovascular</u>

Pyrogallol found in Plant

<u>Carminative</u> <u>Linalool</u> found in Plant (45 ppm)

Caspase-8-Inducer Beta-sitosterol found in Plant; found in Shoot

Glutamine found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Catabolic Shoot ; found in Leaf

Chemopreventive

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Cerebrotonic Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Beta-carotene found in Shoot (12.1 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Geranial found in Plant (6.3 ppm)

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Luteolin found in Plant

Myrcene found in Fruit Essent. Oil :found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-coumaric-acid found in Plant

Pectin found in Plant

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant **Cholagogue**

> Ferulic-acid found in Plant Scopoletin found in Plant

Borneol found in Plant (2.7 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Cinnamic-acid found in Plant Ferulic-acid found in Plant Gallic-acid found in Plant Kaempferol found in Plant Luteolin found in Plant

Mangiferin found in Plant; found in Shoot Nicotinic-acid found in Leaf (1200 ppm)

P-coumaric-acid found in Plant

Ouercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Scopoletin found in Plant Umbelliferone found in Plant Vanillic-acid found in Plant

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

(-)-epicatechin found in Plant Choline-Sparing

Choline found in Leaf ; found in Plant ; found in Cholinergic

Shoot (1000 ppm)

Alpha-terpineol found in Plant (54 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Choleretic

Cholesterolytic

Cicatrizant

Clastogenic

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Cytoprotective

	Chlorogenic-acid found in Leaf ;found in Plant
<u>Co-carcinogenic</u>	Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm)
<u>Cold-preventive</u>	Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)
Coleoptophile	Alpha-pinene found in Shoot Essent. Oil ;found in Leaf Essent. Oil ;found in Plant (245 ppm);found in Fruit Essent. Oil
<u>Collagen-Sparing</u>	<u>Caffeic-acid</u> found in Plant (1000 ppm); found in Shoot (1000 ppm) <u>Chlorogenic-acid</u> found in Leaf; found in Plant
<u>Collagenase-Inhibitor</u>	<u>Proanthocyanidins</u> found in Plant (120000 ppm) <u>Procyanidins</u> found in Plant
Collagenic	Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm) Proanthocyanidins found in Plant (120000 ppm)
Colorant	Beta-carotene found in Shoot (12.1 ppm) Chlorophyll found in Plant Lutein found in Flower Violaxanthin found in Flower
Convulsant	Pinene found in Essential Oil
<u>Copper-Chelator</u>	Kaempferol found in Plant Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in Shoot; found in Leaf
Cosmetic	Myristic-acid found in Plant Stearic-acid found in Plant
Culicide	<u>Linalool</u> found in Plant (45 ppm)
<u>Cyclooxygenase-Activator</u>	Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in Plant (20000 ppm); found in Leaf Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)
<u>Cytochrome-P450-1A2-</u> <u>Inhibitor</u>	Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in Shoot; found in Leaf
Cytochrome-P450-Inducer	Delta-cadinene found in Plant (9 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Shoot (1000 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

DNA-Active Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

DNA-Protective Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

<u>Decalcifier</u> <u>Phloroglucinol</u> found in Plant ; found in Shoot

Luteolin found in Plant

Deiodinase-Inhibitor

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

<u>Demulcent</u> <u>Pectin</u> found in Plant

<u>Chlorophyll</u> found in Plant

<u>Deodorant</u> <u>Proanthocyanidins</u> found in Plant (120000 ppm)

Procyanidins found in Plant

<u>Dermal</u> <u>Alpha-phellandrene</u> found in Plant (5.4 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Cysteine found in Plant

<u>Detoxicant</u> <u>Limonene</u> found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf ; found in Plant ; found in Shoot (5240 ppm)

Isoquercitrin found in Flower ; found in Plant

(mgg 000E)

Luteolin found in Plant

Differentiator Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Ascorbic-acid found in Leaf ;found in Seed (395

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Gaba found in Plant (700 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found

in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercitrin found in Flower; found in Plant

(3000 ppm)

Kaempferol found in Plant

Luteolin found in Plant

Mangiferin found in Plant; found in Shoot

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Diaphoretic

Diuretic

Mannitol found in Plant (20000 ppm)

Myricetin found in Plant

Ouercitrin found in Flower (3380 ppm); found in Leaf : found in Plant : found in Shoot (5240 ppm)

Terpinen-4-ol found in Plant (9 ppm) Xanthones found in Plant (12.8 ppm)

Chlorophyll found in Plant Pyrogallol found in Plant

Dye Quercitrin found in Flower (3380 ppm); found in

Leaf : found in Plant : found in Shoot (5240 ppm)

Pyrogallol found in Plant **Ecbolic**

Proanthocyanidins found in Plant (120000 ppm) Elastase-Inhibitor

Procyanidins found in Plant

Embryotoxic Geraniol found in Plant (72 ppm)

Alpha-phellandrene found in Plant (5.4 ppm)

Geraniol found in Plant (72 ppm) **Emetic**

Mannitol found in Plant (20000 ppm)

Phenol found in Plant.

Limonene found in Fruit Essent. Oil ;found in Shoot :found in Plant (90 ppm); found in Leaf

Enterocontractant Essent, Oil

Essential

Pinene found in Essential Oil

Leucine found in Plant Lysine found in Plant Threonine found in Plant

Beta-sitosterol found in Plant ; found in Shoot

Geranial found in Plant (6.3 ppm)

Kaempferol found in Plant Luteolin found in Plant

Estrogenic Nerol found in Plant (18 ppm)

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil :found in Plant (245

ppm); found in Fruit Essent. Oil

Bornyl-acetate found in Plant (3.6 ppm) Camphene found in Plant (18 ppm)

Expectorant Geraniol found in Plant (72 ppm)

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm) Pinene found in Essential Oil

Alpha-phellandrene found in Plant (5.4 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpinene found in Plant (18 ppm) Alpha-terpineol found in Plant (54 ppm)

Beta-pinene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (6055 ppm); found in Leaf

Essent, Oil

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Cadinene found in Essential Oil Camphene found in Plant (18 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Cinnamic-acid found in Plant **Dodecanol** found in Plant

Gamma-terpinene found in Plant (27 ppm)

Geraniol found in Plant (72 ppm)

Geranyl-acetate found in Plant (432 ppm) Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm)

Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot N-decanal found in Essential Oil N-octanal found in Essential Oil Nerol found in Plant (18 ppm)

Nervl-acetate found in Plant (18 ppm) P-cymene found in Plant (9 ppm) Palmitic-acid found in Plant Stearic-acid found in Plant Threonine found in Plant

Beta-sitosterol found in Plant ; found in Shoot

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Mannitol found in Plant (20000 ppm) <u>Flatugenic</u>

Floral-Inhibitor Gallic-acid found in Plant

Acetophenone found in Plant (2.25 ppm) Alpha-phellandrene found in Plant (5.4 ppm)

Amentoflavone found in Flower (500 ppm); found

in Shoot

Borneol found in Plant (2.7 ppm)

FLavor

<u>Febrifuge</u>

Fistula-Preventive

Fungicide

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

<u>Caryophyllene</u> found in Essential Oil ;found in

Plant (468 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

<u>Cinnamic-acid</u> found in Plant Ferulic-acid found in Plant

Geranial found in Plant (6.3 ppm)
Geraniol found in Plant (72 ppm)

Kaempferol found in Plant

Linalool found in Plant (45 ppm)

<u>Myrcene</u> found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-coumaric-acid found in Plant P-cymene found in Plant (9 ppm)

<u>Pectin</u> found in Plant <u>Phenol</u> found in Plant

Phloroglucinol found in Plant ; found in Shoot

<u>Pinene</u> found in Essential Oil Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

<u>Umbelliferone</u> found in Plant Vanillic-acid found in Plant

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent, Oil

<u>Caryophyllene-epoxide</u> found in Plant (9 ppm) <u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent, Oil

P-hydroxy-benzoic-acid found in Plant

GABA-nergic Linalool found in Plant (45 ppm)

Limonene found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Beta-amyrin found in Shoot

Beta-carotene found in Shoot (12.1 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

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Fungiphilic

Fungistat

GST-Inducer

Gastroprotective

Glucosyl-Transferase-

Inhibitor

Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

<u>Glutathionergic</u>

Glutathionigenic

Goitrogenic Gonadotrophic

HIV-RT-Inhibitor

Hemolytic

Hepatocarcinogenic

Hepatomagenic

Hepatotonic

Hepatotropic

Herbicide

Cysteine found in Plant

Geranial found in Plant (6.3 ppm)

Phloroglucinol found in Plant : found in Shoot Beta-sitosterol found in Plant ; found in Shoot

Kaempferol found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Palmitic-acid found in Plant

Phenol found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Ouercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Ferulic-acid found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Beta-pinene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (6055 ppm); found in Leaf

Essent. Oil

Borneol found in Plant (2.7 ppm) Cinnamic-acid found in Plant Ferulic-acid found in Plant

Geraniol found in Plant (72 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm) Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

P-cymene found in Plant (9 ppm)
Pinene found in Essential Oil
Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

<u>Histamine-Inhibitor</u> Shoot (1000 ppm)

<u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Limonene</u> found in Fruit Essent. Oil; found in Shoot; found in Plant (90 ppm); found in Leaf

<u>Histaminic</u> Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

<u>Hormonal</u> <u>Triacontan-1-ol</u> found in Leaf

<u>Luteolin</u> found in Plant Opcs found in Plant

<u>Hyaluronidase-Inhibitor</u> Proanthocyanidins found in Plant (120000 ppm)

<u>Procyanidins</u> found in Plant

<u>Hydrocholerectic</u> <u>Ferulic-acid</u> found in Plant

<u>Hypercholesterolemic</u> <u>Myristic-acid</u> found in Plant

Palmitic-acid found in Plant

Hypertensive Cadmium found in Leaf (7 ppm); found in Root (3

ppm); found in Plant (5 ppm)

Hypnotic Acetophenone found in Plant (2.25 ppm)

Linalool found in Plant (45 ppm)

<u>Hypoarmonemic</u>

Ornithine found in Plant

Lysine found in Plant

Ornithine found in Plant

Ornithine found in Plant

(-)-epicatechin found in Plant

<u>Ascorbic-acid</u> found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Beta-sitosterol found in Plant : found in Shoot

Luteolin found in Plant

Hypocholesterolemic Nicotinic-acid found in Leaf (1200 ppm)

Pectin found in Plant

Phytosterols found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Stearic-acid</u> found in Plant (-)-epicatechin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Hypoglycemic

Beta-sitosterol found in Plant; found in Shoot

Chlorogenic-acid found in Leaf ; found in Plant

Myricetin found in Plant

Nicotinic-acid found in Leaf (1200 ppm)

Pectin found in Plant

Proanthocyanidins found in Plant (120000 ppm) Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Scopoletin found in Plant

Beta-sitosterol found in Plant; found in Shoot

Ferulic-acid found in Plant

Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Gaba found in Plant (700 ppm) Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercitrin found in Flower; found in Plant

(mgg 000E)

Kaempferol found in Plant

Ouercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Isoferulic-acid found in Plant Linalool found in Plant (45 ppm)

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Kaempferol found in Plant Luteolin found in Plant

Luteolin found in Plant

Choline found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

Ascorbic-acid found in Leaf; found in Seed (395)

ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Hypolipidemic

Hypotensive

Hypothermic

ICAM-1-Inhibitor

IKK-Inhibitor

Ileorelaxant

<u>Immunomodulator</u>

Gallic-acid found in Plant

Limonene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (90 ppm); found in Leaf

Essent, Oil

Opcs found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Gallic-acid found in Plant

P-hydroxy-benzoic-acid found in Plant **Immunosuppressant**

Vanillic-acid found in Plant

Borneol found in Plant (2.7 ppm) Inhalant

Kaempferol found in Plant

Ouercetin found in Flower (1000 ppm); found in **Inotropic**

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Insect-Repellent Borneol found in Plant (2.7 ppm)

Alpha-pinene found in Shoot Essent. Oil ; found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpinene found in Plant (18 ppm) Alpha-terpineol found in Plant (54 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm) Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm)

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpinene found in Plant (18 ppm)

Beta-pinene found in Fruit Essent. Oil ;found in Shoot; found in Plant (6055 ppm); found in Leaf

Essent. Oil

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Insecticide

Insectifuge

Shoot (1000 ppm)

Camphene found in Plant (18 ppm)

Carvophyllene found in Essential Oil ; found in

Plant (468 ppm)

Caryophyllene-epoxide found in Plant (9 ppm) Chlorogenic-acid found in Leaf :found in Plant

Ferulic-acid found in Plant

Gamma-terpinene found in Plant (27 ppm)

Geraniol found in Plant (72 ppm)

Limonene found in Fruit Essent. Oil :found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm)

Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-cymene found in Plant (9 ppm) Terpinen-4-ol found in Plant (9 ppm)

Alpha-phellandrene found in Plant (5.4 ppm) Alpha-pinene found in Shoot Essent. Oil ; found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil Geraniol found in Plant (72 ppm)

Geranyl-acetate found in Plant (432 ppm) Isoquercitrin found in Flower ; found in Plant

(mgg 000E)

Quercitrin found in Flower (3380 ppm); found in Leaf : found in Plant : found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Gallic-acid found in Plant Pyrogallol found in Plant

Insulinase-Inhibitor Nicotinic-acid found in Leaf (1200 ppm)

(-)-epicatechin found in Plant

Quercetin found in Flower (1000 ppm); found in <u>Insulinogenic</u> Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Nicotinic-acid found in Leaf (1200 ppm) Interferon-Synergist Beta-carotene found in Shoot (12.1 ppm)

> Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Insectiphile

Insulin-Sparing

Insulinotonic

Interferonogenic

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Interleukin-6-Inhibitor

<u>Alpha-terpineol</u> found in Plant (54 ppm) <u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

<u>Iodothyronine-Deiodinase-</u>

Inhibitor

<u>Kaempferol</u> found in Plant <u>Luteolin</u> found in Plant

<u>Alpha-phellandrene</u> found in Plant (5.4 ppm) <u>Alpha-pinene</u> found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ;found in Plant (245

ppm); found in Fruit Essent. Oil

Beta-pinene found in Fruit Essent. Oil ;found in Shoot ;found in Plant (6055 ppm);found in Leaf

Essent. Oil

Borneol found in Plant (2.7 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

<u>Irritant</u> <u>Gamma-terpinene</u> found in Plant (27 ppm)

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Linalool found in Plant (45 ppm)

Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot P-cymene found in Plant (9 ppm)

Pyrogallol found in Plant

Terpinen-4-ol found in Plant (9 ppm)

JNK-Inhibitor <u>Kaempferol</u> found in Plant

<u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Beta-amyrin found in Shoot

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

<u>Caryophyllene-epoxide</u> found in Plant (9 ppm) <u>Hypericin</u> found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm);found in Fruit (730 ppm);found in Flower (18000 ppm);found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Linalool found in Plant (45 ppm)

<u>Juvabional</u>

Larvicide

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Larvistat

Chlorogenic-acid found in Leaf ; found in Plant

Myricetin found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Alpha-phellandrene found in Plant (5.4 ppm)

Cinnamic-acid found in Plant

<u>Laxative</u> <u>Mannitol</u> found in Plant (20000 ppm)

<u>P-cymene</u> found in Plant (9 ppm)

Vanillic-acid found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

<u>Leukotriene-Inhibitor</u> Shoot (1000 ppm)

<u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Limonene</u> found in Fruit Essent. Oil; found in Shoot; found in Plant (90 ppm); found in Leaf

<u>Lipolytic</u> Essent. Oil

Nicotinic-acid found in Leaf (1200 ppm)

Opcs found in Plant

<u>Choline</u> found in Leaf ; found in Plant ; found in

Shoot (1000 ppm)

<u>Lipoxygenase-1-Inhibitor</u> (-)-epicatechin found in Plant

(-)-epicatechin found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf : found in Plant

<u>Cinnamic-acid</u> found in Plant <u>Kaempferol</u> found in Plant <u>Luteolin</u> found in Plant <u>Myricetin</u> found in Plant

<u>Lipoxygenase-Inhibitor</u> P-coumaric-acid found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Umbelliferone found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

<u>Lithogenic</u> (1300 ppm)

Cadmium found in Leaf (7 ppm); found in Root (3

ppm); found in Plant (5 ppm)

<u>Myristic-acid</u> found in Plant

<u>Palmitic-acid</u> found in Plant

<u>Staaria acid found in Plant</u>

Stearic-acid found in Plant

Lyase-Inhibitor Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

MAO-A-Inhibitor Shoot ;found in Leaf

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780 ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

MAO-Inhibitor

Kaempferol found in Plant

Mangiferin found in Plant; found in Shoot Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm)

Scopoletin found in Plant

Xanthones found in Plant (12.8 ppm)

MAPK-Inhibitor <u>Luteolin</u> found in Plant

<u>Hyperforin</u> found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in

Fruit ;found in Leaf

<u>MMP-9-Inhibitor</u> <u>Luteolin</u> found in Plant

Mast-Cell-Stabilizer

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Memorigenic Choline found in Leaf ;found in Plant ;found in

Shoot (1000 ppm)

<u>Caffeic-acid</u> found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Metal-Chelator Chlorogenic-acid found in Leaf; found in Plant

Ferulic-acid found in Plant

Luteolin found in Plant

Metalloproteinase-Inhibitor Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Mutagenic

Beta-amyrin found in Shoot

Mosquitocide Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Mosquitofuge

Alpha-terpineol found in Plant (54 ppm)

Linalool found in Plant (45 ppm)

Motor-Depressant

Alpha-terpineol found in Plant (54 ppm)

Linalool found in Plant (45 ppm)

<u>Mucogenic</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

Mucolytic ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Musculotropic</u> <u>Scopoletin</u> found in Plant

<u>Kaempferol</u> found in Plant <u>Myricetin</u> found in Plant

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Mycobactericide</u> <u>Geraniol</u> found in Plant (72 ppm)

Rutin found in Flower (2800 ppm); found in Leaf

Myoprotective (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Gallic-acid found in Plant

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

Myorelaxant <u>Luteolin</u> found in Plant

Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Quercetin found in Flower (1000 ppm); found in

NADH-Oxidase-Inhibitor Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Luteolin found in Plant

NEP-Inhibitor Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

NO-Genic

Shoot ;found in Leaf
Luteolin found in Plant

NF-kB-Inhibitor

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem ; found in

Shoot ; found in Leaf

<u>Chlorogenic-acid</u> found in Leaf; found in Plant <u>Limonene</u> found in Fruit Essent. Oil; found in Shoot; found in Plant (90 ppm); found in Leaf

Essent. Oil

<u>Quercetin</u> found in Flower (1000 ppm); found in NO-Synthase-Inhibitor

Plant (20000 ppm); found in Stem ; found in

Shoot ; found in Leaf

Natriuretic <u>Kaempferol</u> found in Plant

Alpha-terpineol found in Plant (54 ppm)

Borneol found in Plant (2.7 ppm) Geraniol found in Plant (72 ppm)

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Nematicide Essent. Oil

<u>Linalool</u> found in Plant (45 ppm) <u>Myristic-acid</u> found in Plant <u>Palmitic-acid</u> found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Cadmium found in Leaf (7 ppm); found in Root (3

ppm);found in Plant (5 ppm)
Gallic-acid found in Plant

Mannitol found in Plant (20000 ppm)

Pyrogallol found in Plant

<u>Neurogenic</u> <u>Beta-eudesmol</u> found in Plant (32 ppm)

NeuroinhibitorGaba found in Plant (700 ppm)NeurotoxicGaba found in Plant (700 ppm)NeurotransmitterGaba found in Plant (700 ppm)

<u>Nigrifacient</u> <u>Pyrogallol</u> found in Plant <u>Ophthalmic-Antialkali</u> <u>Cysteine</u> found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf :found in Plant

Ferulic-acid found in Plant

Ornithine-Decarboxylase-

Inhibitor

Nephrotoxic

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

<u>Proanthocyanidins</u> found in Plant (120000 ppm) <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Oviposition-Stimulant

Ozone-Scavenger

Shoot :found in Leaf

Chlorogenic-acid found in Leaf ; found in Plant Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Chlorophyll found in Plant Oxidant Oxidase-Inhibitor Myricetin found in Plant

> Limonene found in Fruit Essent. Oil ;found in Shoot :found in Plant (90 ppm); found in Leaf

Essent, Oil

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil :found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpinene found in Plant (18 ppm) P450-2B1-Inhibitor

> Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Delta-cadinene found in Plant (9 ppm)

Limonene found in Fruit Essent. Oil ;found in Shoot :found in Plant (90 ppm); found in Leaf

P450-Inducer Essent. Oil

> Ouercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in P450-Inhibitor

Shoot :found in Leaf

Kaempferol found in Plant

Rutin found in Flower (2800 ppm); found in Leaf PAF-Inhibitor

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Quercetin found in Flower (1000 ppm); found in PGE2-Inhibitor

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf Luteolin found in Plant

Quercetin found in Flower (1000 ppm); found in PTK-Inhibitor

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

(-)-epicatechin found in Plant Pancreatogenic

Quercitrin found in Flower (3380 ppm); found in <u>Paralytic</u>

Leaf; found in Plant; found in Shoot (5240 ppm)

Choline found in Leaf ; found in Plant ; found in Parasympathomimetic

Shoot (1000 ppm)

Acetophenone found in Plant (2.25 ppm) Alpha-humulene found in Plant (18 ppm) Alpha-phellandrene found in Plant (5.4 ppm) Alpha-pinene found in Shoot Essent. Oil ; found in Leaf Essent. Oil ; found in Plant (245 ppm); found in Fruit Essent. Oil Alpha-selinene found in Plant (18 ppm) Alpha-terpinene found in Plant (18 ppm) Alpha-terpineol found in Plant (54 ppm) Beta-pinene found in Fruit Essent. Oil ;found in Shoot; found in Plant (6055 ppm); found in Leaf Essent, Oil Beta-selinene found in Plant (27 ppm) Borneol found in Plant (2.7 ppm) Cadinene found in Essential Oil Carvophyllene found in Essential Oil ; found in Plant (468 ppm) Chlorophyll found in Plant Gamma-terpinene found in Plant (27 ppm) Geraniol found in Plant (72 ppm) Geranyl-acetate found in Plant (432 ppm) Guaiol found in Plant (27 ppm) Linalool found in Plant (45 ppm) Myrcene found in Fruit Essent. Oil ;found in Leaf Essent. Oil ;found in Essential Oil ;found in Plant (190 ppm); found in Shoot N-octanal found in Essential Oil Nerol found in Plant (18 ppm) Nervl-acetate found in Plant (18 ppm) Pinene found in Essential Oil Stearic-acid found in Plant Umbelliferone found in Plant Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf Essent. Oil Pectin found in Plant (-)-epicatechin found in Plant Acetophenone found in Plant (2.25 ppm) Alpha-phellandrene found in Plant (5.4 ppm) Alpha-pinene found in Shoot Essent. Oil ; found in Leaf Essent. Oil ; found in Plant (245 ppm); found in Fruit Essent. Oil Alpha-terpinene found in Plant (18 ppm)

Alpha-terpineol found in Plant (54 ppm)

in Shoot

Amentoflavone found in Flower (500 ppm); found

<u>Perfumery</u>

Peristaltic

Pesticide

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Ascorbic-acid found in Leaf ; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm)

Beta-eudesmol found in Plant (32 ppm)

Beta-pinene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (6055 ppm); found in Leaf Essent, Oil

Beta-sitosterol found in Plant ; found in Shoot

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Cadinene found in Essential Oil

Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm)

Camphene found in Plant (18 ppm)

Caryophyllene found in Essential Oil; found in Plant (468 ppm)

Caryophyllene-epoxide found in Plant (9 ppm)

Chlorogenic-acid found in Leaf ; found in Plant

Chlorophyll found in Plant

Cinnamic-acid found in Plant

Cvanidin found in Plant

Cysteine found in Plant

Delta-cadinene found in Plant (9 ppm)

Ferulic-acid found in Plant

Gallic-acid found in Plant

Gamma-terpinene found in Plant (27 ppm)

Gentisic-acid found in Plant

Geranial found in Plant (6.3 ppm)

Geraniol found in Plant (72 ppm)

Guaiol found in Plant (27 ppm)

Hyperforin found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in Fruit : found in Leaf

Hypericin found in Cotyledon (14.5 ppm); found in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in

Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Hyperin found in Plant (5500 ppm)

Hyperoside found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in

Plant (20000 ppm); found in Leaf

Isoquercetin found in Plant

Isoquercitrin found in Flower; found in Plant (3000 ppm)

Kaempferol found in Plant

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Linalool found in Plant (45 ppm)

Luteolin found in Plant

Mangiferin found in Plant; found in Shoot

Mannitol found in Plant (20000 ppm)

Myrcene found in Fruit Essent. Oil ;found in

Leaf Essent. Oil ;found in Essential Oil ;found in

Plant (190 ppm); found in Shoot

Myricetin found in Plant

Neral found in Plant (6.3 ppm) Nerol found in Plant (18 ppm)

Neryl-acetate found in Plant (18 ppm)

Opcs found in Plant

P-coumaric-acid found in Plant P-cymene found in Plant (9 ppm)

P-hydroxy-benzoic-acid found in Plant

Palmitic-acid found in Plant

Pectin found in Plant Phenol found in Plant

Phloroglucinol found in Plant; found in Shoot

Pinene found in Essential Oil Procyanidins found in Plant Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Quercitrin found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf (3000 ppm); found in Stem; found in Shoot

(10000 ppm); found in Plant (16000 ppm)

Scopoletin found in Plant

Terpinen-4-ol found in Plant (9 ppm)

Umbelliferone found in Plant Vanillic-acid found in Plant

Phosphodiesterase-

Inhibitor

Amentoflavone found in Flower (500 ppm); found

in Shoot

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Umbelliferone found in Plant **Photoactive**

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm);found in Plant (7000 ppm);found in Leaf

Phospholipase-Inhibitor

Photodermatotic

Photosensitizer

(1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil (19 ppm): found in Essential Oil (2200 ppm)

Limonene found in Fruit Essent. Oil ;found in Shoot :found in Plant (90 ppm); found in Leaf

Essent, Oil

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

ppm); found in Plant (7000 ppm); found in Leaf **Phototoxic** (1950 ppm); found in Fruit (730 ppm); found in

Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

P-hydroxy-benzoic-acid found in Plant

Phytoalexin Scopoletin found in Plant

Phytohormonal Scopoletin found in Plant **Pigment** Cyanidin found in Plant

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in Plasmodicide

Shoot :found in Leaf

Ferulic-acid found in Plant Preservative

Luteolin found in Plant

Quercetin found in Flower (1000 ppm); found in **Proliferant**

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Beta-carotene found in Shoot (12.1 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Prooxidant Cvanidin found in Plant

Linalool found in Plant (45 ppm)

Lutein found in Flower

Palmitic-acid found in Plant

Proanthocyanidins found in Plant (120000 ppm) **Propecic**

Stearic-acid found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Ferulic-acid found in Plant Prostaglandigenic

P-coumaric-acid found in Plant

P-hydroxy-benzoic-acid found in Plant

Ferulic-acid found in Plant P-coumaric-acid found in Plant

Prostaglandin-Synthesis-

Pyrogallol found in Plant

Quercetin found in Flower (1000 ppm); found in Inhibitor

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Prostaglandin-Synthetase-

Inhibitor

Luteolin found in Plant

Luteolin found in Plant

Protein-Kinase-C-Inhibitor

Protein-Kinase-Inhibitor

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780 ppm); found in Plant (7000 ppm); found in Leaf

(1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

Kaempferol found in Plant

Protisticide Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Kaempferol</u> found in Plant <u>Lutein</u> found in Flower <u>Myricetin</u> found in Plant

Quinone-Reductase- Myricetin found in Plant

<u>Inducer</u> <u>Quercetin</u> found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

Renoirritant Terpinen-4-ol found in Plant (9 ppm)

Reverse-Transcriptase-

<u>Radioprotective</u>

Inhibitor

(-)-epicatechin found in Plant

Rodenticide Phenol found in Plant

<u>Secretogogue</u> <u>P-hydroxy-benzoic-acid</u> found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpineol found in Plant (54 ppm)
Beta-eudesmol found in Plant (32 ppm)

Borneol found in Plant (2.7 ppm)

Bornyl-acetate found in Plant (3.6 ppm)

Sedative <u>Caffeic-acid</u> found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Caryophyllene found in Essential Oil ;found in

Plant (468 ppm)

Gaba found in Plant (700 ppm)
Geraniol found in Plant (72 ppm)

Geranyl-acetate found in Plant (432 ppm)

Hyperforin found in Flower (27930 ppm); found

in Shoot; found in Plant (45000 ppm); found in

Fruit ; found in Leaf

<u>Limonene</u> found in Fruit Essent. Oil ;found in Shoot ;found in Plant (90 ppm);found in Leaf

Essent. Oil

<u>Linalool</u> found in Plant (45 ppm) <u>Nerol</u> found in Plant (18 ppm) <u>P-cymene</u> found in Plant (9 ppm)

Soap Palmitic-acid found in Plant

Soporific Acetophenone found in Plant (2.25 ppm)

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

ppm);found in Fruit Essent. Oil

<u>Alpha-terpinene</u> found in Plant (18 ppm)

<u>Spasmogenic</u> <u>Beta-pinene</u> found in Fruit Essent. Oil ;found in

Shoot ;found in Plant (6055 ppm);found in Leaf

Essent. Oil

Camphene found in Plant (18 ppm)

Pinene found in Essential Oil

<u>Spasmolytic</u> <u>Geranial</u> found in Plant (6.3 ppm)

Spermicide Beta-sitosterol found in Plant; found in Shoot

Terpinen-4-ol found in Plant (9 ppm)

<u>Styptic</u> <u>Gallic-acid</u> found in Plant Succinoxidase-Inhibitor Luteolin found in Plant

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Chlorogenic-acid found in Leaf; found in Plant

Ferulic-acid found in Plant

Opcs found in Plant

Sunscreen Procyanidins found in Plant

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

 $\underline{Umbelliferone} \ found \ in \ Plant$

Suppository Stearic-acid found in Plant

Sweetener Chlorogenic-acid found in Leaf; found in Plant

Mannitol found in Plant (20000 ppm)

T-Cell-Stimulant Mangiferin found in Plant; found in Shoot

Isoquercitrin found in Flower; found in Plant

(3000 ppm)

<u>Kaempferol</u> found in Plant

TNF-alpha-Inhibitor <u>Luteolin</u> found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Inhibitor

Shoot ; found in Leaf

Kaempferol found in Plant

Teratologic Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Termiticide Alpha-terpineol found in Plant (54 ppm)

Neral found in Plant (6.3 ppm)

Caryophyllene found in Essential Oil; found in

Plant (468 ppm)

Termitifuge Guaiol found in Plant (27 ppm)

Linalool found in Plant (45 ppm)

<u>Testosterone-Inducer</u> <u>Delta-cadinene</u> found in Plant (9 ppm)

<u>Thymoprotective</u> <u>Beta-carotene</u> found in Shoot (12.1 ppm)

<u>Tissue-Thromboplastin-</u>
In Stem ; found in Flower (6570 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Stem ; found in Shoot (40000 ppm); found in Sh

Plant (20000 ppm); found in Leaf

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780

Tonic ppm); found in Plant (7000 ppm); found in Leaf

(1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Gallic-acid found in Plant
Kaempferol found in Plant
Luteolin found in Plant

Topoisomerase-I-Inhibitor Myricetin found in Plant

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Isoquercitrin found in Flower; found in Plant

(mgg 000E)

<u>Kaempferol</u> found in Plant <u>Myricetin</u> found in Plant

Topoisomerase-II-Inhibitor Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Toxic</u> <u>Pyrogallol</u> found in Plant

Alpha-pinene found in Shoot Essent. Oil ;found

in Leaf Essent. Oil ; found in Plant (245

<u>Tranquilizer</u> ppm); found in Fruit Essent. Oil

Borneol found in Plant (2.7 ppm)

Gaba found in Plant (700 ppm)

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780 ppm); found in Plant (7000 ppm); found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil (19 ppm); found in Essential Oil (2200 ppm)

Alpha-pinene found in Shoot Essent. Oil ; found

in Leaf Essent. Oil ; found in Plant (245

ppm); found in Fruit Essent. Oil

Alpha-terpineol found in Plant (54 ppm)

Beta-pinene found in Fruit Essent. Oil ;found in Shoot ; found in Plant (6055 ppm); found in Leaf

Essent, Oil

Limonene found in Fruit Essent. Oil ;found in Shoot; found in Plant (90 ppm); found in Leaf

Essent, Oil

Hypericin found in Cotyledon (14.5 ppm); found

in Stem (210 ppm); found in Shoot (1780 ppm);found in Plant (7000 ppm);found in Leaf (1950 ppm); found in Fruit (730 ppm); found in Flower (18000 ppm); found in Flower Essent. Oil

(19 ppm); found in Essential Oil (2200 ppm)

Geraniol found in Plant (72 ppm) Linalool found in Plant (45 ppm) Nerol found in Plant (18 ppm)

P-cymene found in Plant (9 ppm) Linalool found in Plant (45 ppm)

Caffeic-acid found in Plant (1000 ppm); found in

Shoot (1000 ppm)

Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Cinnamic-acid found in Plant Kaempferol found in Plant P-coumaric-acid found in Plant

Ouercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot ; found in Leaf

Catechins found in Plant Myricetin found in Plant

Tyrosine-Kinase-Inhibitor Quercetin found in Flower (1000 ppm); found in

Plant (20000 ppm); found in Stem; found in

Shoot :found in Leaf

Transdermal

Tremorigenic

Trichomonicide

Tumor-Promoter

Tumorigenic

Tyrosinase-Inhibitor

Ubiquiot

Uricosuric

Beta-carotene found in Shoot (12.1 ppm)
Beta-sitosterol found in Plant; found in Shoot

Lutein found in Flower

P-hydroxy-benzoic-acid found in Plant

<u>Vanillic-acid</u> found in Plant <u>Violaxanthin</u> found in Flower

<u>Ulcerogenic</u> <u>Beta-sitosterol</u> found in Plant ;found in Shoot

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Ascorbic-acid</u> found in Leaf ;found in Seed (395 <u>Urinary-Acidulant</u> ppm);found in Shoot (16.5 ppm);found in Plant

(1300 ppm)

<u>Uterosedative</u> <u>Ferulic-acid</u> found in Plant <u>Scopoletin</u> found in Plant

<u>Uterotrophic</u> <u>Kaempferol</u> found in Plant

<u>Hyperforin</u> found in Flower (27930 ppm); found in Shoot; found in Plant (45000 ppm); found in

Fruit; found in Leaf

<u>VEGF-Inhibitor</u> <u>Luteolin</u> found in Plant

Quercetin found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

(-)-epicatechin found in Plant

Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant

(1300 ppm)

<u>Kaempferol</u> found in Plant <u>Luteolin</u> found in Plant <u>Myricetin</u> found in Plant Phenol found in Plant

<u>Vasodilator</u> <u>Phenol</u> found in Plant <u>Proanthocyanidins</u> found in Plant (120000 ppm)

<u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in

Shoot ;found in Leaf

Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Quercitrin</u> found in Flower (3380 ppm); found in Leaf; found in Plant; found in Shoot (5240 ppm) Rutin found in Flower (2800 ppm); found in Leaf

(3000 ppm); found in Stem; found in Shoot (10000 ppm); found in Plant (16000 ppm)

<u>Vasorelaxant</u> <u>Proanthocyanidins</u> found in Plant (120000 ppm)

<u>Vermifuge</u> <u>Cinnamic-acid</u> found in Plant

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Vasopressor

<u>Vulnerary</u>	Alpha-terpineol found in Plant (54 ppm) Ascorbic-acid found in Leaf; found in Seed (395 ppm); found in Shoot (16.5 ppm); found in Plant (1300 ppm) Caffeic-acid found in Plant (1000 ppm); found in Shoot (1000 ppm) Chlorogenic-acid found in Leaf; found in Plant Chlorophyll found in Plant Terpinen-4-ol found in Plant (9 ppm)
cAMP-Inhibitor	<u>Hyperoside</u> found in Flower (6570 ppm); found in Stem; found in Shoot (40000 ppm); found in Plant (20000 ppm); found in Leaf
<u>iNOS-Inhibitor</u>	<u>Kaempferol</u> found in Plant <u>Luteolin</u> found in Plant <u>Quercetin</u> found in Flower (1000 ppm); found in Plant (20000 ppm); found in Stem; found in Shoot; found in Leaf

Search

Chemicals detected

Chemical	Plant part	Low ppm	High ppm
(+)-catechin	Plant		
(+)-epicatechin	Plant		
(-)-epicatechin	Plant		
(e)-beta-farnesene	Plant	0.5	9
(e)-ocimene	Plant	0.1	2.25
(z)-ocimene	Plant	0.25	4.5
1(2) 11(9) hispiganin	Flower		
<u>1(3)-11(8)-biapigenin</u>	Shoot		72.5
1,3,6,7-tetrahydroxyxanthone	Leaf		
1,3,0,7-tetranyuroxyxantmone	Plant		
<u>2,2-dimethyl-7-isobutyl-2h,5h-pyrano-(4,3-b)-pyran-5-one</u>	Plant	1.5	27
<u>2,2-dimethyl-7-sec-butyl-2h,5h-pyrano-(4,3-b)-pyran-5-one</u>	Plant	1	18
2-methyl-butenol	Plant		
<u>2-methyl-decane</u>	Fruit Essent. Oil		

2-methyl-octane	Leaf Essent. Oil Shoot Fruit Essent. Oil Shoot Leaf Essent. Oil		
5-methylheptan-2,4-dione	Plant	0.25	4.5
6-methyl-hept-5-en-2-one	Plant	1	18
6-methylheptan-2,4-dione	Plant	0.25	4.5
Acetophenone	Plant	0.1	2.25
<u>Acylphloroglucinols</u>	Plant		
Adhumanfalin	Flower		
<u>Adhyperfolin</u>	Fruit		
<u>Adhyperiforin</u>	Plant	2,000	19,000
<u>Alkanes</u>	Shoot		
<u>Alkanols</u>	Shoot		
<u>Alpha-amorphene</u>	Plant	0.25	4.5
<u>Alpha-campholenol</u>	Plant	0.05	0.9
<u>Alpha-cuprenene</u>	Plant	16	288
<u>Alpha-eudesmol</u>	Plant	2.5	45
<u>Alpha-humulene</u>	Plant	1	18
<u>Alpha-phellandrene</u>	Plant	0.3	5.4
	Shoot Essent Oil	· ·•	
Alpha-pinene	Leaf Essent. Oil		
	Plant	13	245
	Fruit Essent. Oil		
<u>Alpha-selinene</u>	Plant	1	18
<u>Alpha-terpinene</u>	Plant	1	18
<u>Alpha-terpineol</u>	Plant	3	54
<u>Alpha-terpinyl-acetate</u>	Plant	0.1	1.8
Amentoflavone	Flower Shoot	100	500
<u>Ar-curcumene</u>	Plant	0.5	9
	Leaf		
Ascorbic-acid	Seed		395

	Shoot		16.5
	Plant		1,300
Beta-amyrin	Shoot		
Beta-bourbonene	Plant	0.25	4.5
Beta-carotene	Shoot		12.1
Beta-elemene	Plant	0.25	4.5
Beta-eudesmol	Plant	2	32
	Fruit Essent. Oil		
Beta-pinene	Shoot		
<u>Botti pinono</u>	Plant	335	6,055
	Leaf Essent. Oil		
Beta-selinene	Plant	1.5	27
Beta-sitosterol	Plant		
Deta Situsteror	Shoot		
<u>Biapigenin</u>	Leaf		
<u>Bicycloelemene</u>	Plant	0.1	1.8
Borneol	Plant	0.15	2.7
Bornyl-acetate	Plant	0.2	3.6
Brenzcatechin	Plant		
Cadinene	Essential Oil		
	Leaf	1	7
<u>Cadmium</u>	Root	1	3
	Plant	1	5
<u>Caffeic-acid</u>	Plant		1,000
Odnele dela	Shoot		1,000
<u>Camphene</u>	Plant	1	18
Carotene	Seed		165
Carotenoids	Plant		
Caryophyllene	Essential Oil		
<u>Curyophynene</u>	Plant	26	468
<u>Caryophyllene-epoxide</u>	Plant	0.5	9
<u>Catechins</u>	Plant		
<u>Ceryl-alcohol</u>	Plant		
<u>Chlorogenic-acid</u>	Leaf		
<u>omorogemo-acia</u>	Plant		
<u>Chlorophyll</u>	Plant		
Choline	Leaf		

	Plant		
	Shoot	34	1,000
Cineole	Essential Oil		
<u>Cinnamic-acid</u>	Plant		
<u>Cis-trollixanthin</u>	Flower		
<u>Cyanidin</u>	Plant		
<u>Cyclopseudohypericin</u>	Plant		
<u>Cysteine</u>	Plant		
<u>Delta-cadinene</u>	Plant	0.5	9
<u>Dodecanol</u>	Plant		
<u>Elemol</u>	Plant	0.25	4.5
<u>Emodinanthranol</u>	Plant		
	Flower		2,500
Es	Shoot	700	1,250
<u>Eo</u>	Seed		3,300
	Plant	500	9,000
<u>Fat</u>	Seed		328,000
<u>Fenchol</u>	Plant	0.25	4.5
Ferulic-acid	Plant		
Planada	Flower		117,100
<u>Flavonoids</u>	Shoot	70,000	74,000
<u>Gaba</u>	Plant		700
Gallic-acid	Plant		
Gamma-curcumene	Plant	0.5	9
Gamma-eudesmol	Plant	1.5	27
Gamma-terpinene	Plant	1.5	27
<u>Gentisic-acid</u>	Plant		
Geranial	Plant	0.35	6.3
Geraniol	Plant	4	72
<u>Geranyl-acetate</u>	Plant	24	432
Glutamine	Plant		
<u>Guaiol</u>	Plant	1.5	27
<u>Gurjunene</u>	Plant		
<u>Hexacosan-1-ol</u>	Leaf		
Hammelone	Essential Oil		
<u>Humulene</u>	Plant		
<u>Hyperesin-1</u>	Plant		
<u>Hyperesin-2</u>	Plant		
<u>Hyperforin</u>	Flower		27,930

	Shoot Plant Fruit Leaf	20,000	45,000
	Cotyledon		14.5
	Stem	40	210
	Shoot	390	1,780
	Plant	5,000	7,000
<u>Hypericin</u>	Leaf	190	1,950
<u> 11ypericiii</u>	Fruit		730
	Flower	860	18,000
	Flower Essent. Oil	5	19
	Essential Oil		2,200
<u>Hypericins</u>	Plant	95	4,660
<u>Hypericodihydroanthrone</u>	Plant		
<u>Hyperifolin</u>	Plant		
<u>Hyperin</u>	Plant	3,500	5,500
	Flower		6,570
	Stem		
<u>Hyperoside</u>	Shoot	5,000	40,000
	Plant	3,500	20,000
	Leaf		
	Flower	100	500
<u>I3,ii8-biapigenin</u>	Plant		2,600
	Flower	1,000	5,000
<u>Imanin</u>	Plant		
	Shoot		
<u>Ishwarane</u>	Plant	0.5	9
<u>Isoferulic-acid</u>	Plant		
<u>Isohypericin</u>	Plant		
<u>Isoquercetin</u>	Plant		
<u>Isoquercitin</u>	Plant		
<u>Isoquercitrin</u>	Flower		
	Plant		3,000
<u>Isovalerianic-acid</u>	Plant		
<u>Isovaleric-acid-ester</u>	Plant		
Kaempferol	Plant		
Kielcorin	Plant		

	Root		
Kilecorin	Plant		
	Leaf	6	18
Lead	Plant	2	12
<u> Souu</u>	Root	4	5
Leucine	Plant	-	J
<u>Leucocyanidin</u>	Plant		
<u> </u>	Fruit Essent.		
	Oil		
	Shoot		
Limonene	Plant	5	90
	Leaf Essent. Oil		
Linalool	Plant	2.5	45
Lutein	Flower		
Luteolin	Plant		
Luteoxanthin	Flower		
<u>Lysine</u>	Plant		
	Plant		
<u>Mangiferin</u>	Shoot		
Mangiferin(sic)	Plant		
Mannitol	Plant	11,000	20,000
Methyl-2-decane	Plant		
Methyl-2-octane	Essential Oil		164,000
Methyl-3-but-3-en-2-ol	Plant		
Methyl-geranate	Plant	0.3	5.4
	Fruit Essent. Oil		
<u>Myrcene</u>	Leaf Essent. Oil		
<u></u>	Essential Oil		
	Plant	10	190
	Shoot		
<u>Myricetin</u>	Plant		
Myricetin-3-o-beta-d-glucoside	Plant		
Myristic-acid	Plant		
<u>N-decanal</u>	Essential Oil		
	Fruit Essent.		
<u>N-nonane</u>	Oil		
	01 .		

Shoot

	Essential Oil		
	Leaf Essent.		
	Oil		
<u>N-octanal</u>	Essential Oil		
N-octanol	Essential Oil		
	Fruit Essent.		
	Oil		
<u>N-undecane</u>	Leaf Essent.		
	Oil Shoot		
Nee alleesimene	Plant	0.3	5.4
Neo-alloocimene	Plant	0.35	6.3
Neral	Plant	1	18
Nervi acetate	Plant	1	18
Neryl-acetate Nicotinic-acid	Leaf	0.007	1,200
	Plant	0.007	1,200
Nonacosane Nonane	Plant	23	414
Nor-cyclopseudohypericin	Plant	۷3	414
<u>Nor-cyclopseudonypericm</u>	Plant		
<u>Novoimanin</u>	Shoot	30,000	40,000
Oct-1-ene	Plant	1.5	40,000 17
Octacosan-1-ol	Leaf	1.5	1 /
Opcs Opcs	Plant		
<u>Ornithine</u>	Plant		
P-coumaric-acid	Plant		
P-cymene	Plant	0.5	9
P-hydroxy-benzoic-acid	Plant	0.5	5
Palmitic-acid	Plant		
Pectin	Plant		
Perflavit	Shoot		
Phenol	Plant		
<u>Phlobaphene</u>	Plant		
<u> </u>	Plant		
<u>Phloroglucinol</u>	Shoot		
<u>Phytosterols</u>	Plant		
Pinene	Essential Oil		
Pinol	Plant	0.05	0.9
Proanthocyanidins	Plant		120,000
Procyanidins	Plant		-,

<u>Proline</u>	Plant		
<u>Protein</u>	Seed	181,000	207,000
<u>Protohypericin</u>	Plant		
<u>Protopseudohypericin</u>	Plant		
Provitamin-a	Plant		130
	Cotyledon		164.9
	Shoot		40
<u>Pseudohypericin</u>	Plant		
	Leaf		
	Flower	2,260	5,800
<u>Pseudohypericodihydroanthrone</u>	Plant	•	•
Pyrogallol	Plant		
	Flower		1,000
	Plant		20,000
Quercetin	Stem		ŕ
_ 	Shoot		
	Leaf		
	Plant		
<u>Quercetin-3-o-glucuronide</u>	Shoot		
	Plant		
<u>Quercetin-3-o-xyloside</u>	Shoot		
	Flower		3,380
	Leaf		-,
<u>Quercitrin</u>	Plant		
	Shoot	3,000	5,240
Resorcynol	Plant	-,	-,
Rhodan	Plant		
	Flower	1,000	2,800
	Leaf	2,000	3,000
Rutin	Stem	,	•
	Shoot		10,000
	Plant		16,000
Saponin	Seed		7, 1, 1, 1
Scopoletin	Plant		
Selina-4,11-diene	Plant	0.15	2.7
Sitosterol	Plant	•	
Stearic-acid	Plant		
	Flower		162,000
<u>Tannins</u>	Stem		38,000

	Shoot		3,300
	Plant	30,000	160,000
	Leaf		124,000
	Seed		121,000
<u>Taraxasterol</u>	Shoot		
Terpinen-4-ol	Plant	0.5	9
<u>Terpineolene</u>	Plant	1.5	27
<u>Tetracosan-1-ol</u>	Leaf		
<u>Threonine</u>	Plant		
<u>Triacontan-1-ol</u>	Leaf		
<u>Trollichrome</u>	Flower		
<u>Umbelliferone</u>	Plant		
<u>Undecane</u>	Plant	0.25	4.5
<u>Vanillic-acid</u>	Plant		
<u>Violaxanthin</u>	Flower		
Xanthones	Plant		12.8

Reference: *Dr. Duke's Phytochemical and Ethnobotanical Databases.* [Online Database]



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