Medical Botany 10: Some common plants used in veterinary medicine- continued

Field pumpkin (Cucurbita pepo L.)







Diğer isimler: Balkabağı, Sakızkabağı.

Aile: Kabakgiller (*Cucurbitaceae*).

Kullanılan kısım

Tohumları/çekirdekleri (Semen cucurbitae peponi)

Cucurbita pepo



Assorted cultivars, from top-left, clockwise: pattypan squash, yellow summer squash, a large zucchini (or marrow), and pumpkins

Scientific classification 🥖



Kingdom: Plantae

Clade: Angiosperms

Clade: Eudicots

Clade: Rosids

Order: Cucurbitales

Family: Cucurbitaceae

Genus: Cucurbita Species: C. pepo

Binomial name

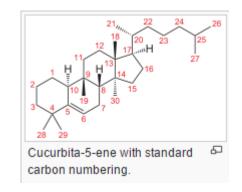
Cucurbita pepo

Subspecies[1]

- Cucurbita pepo subsp. fraterna
- Cucurbita pepo subsp. pepo
- Cucurbita pepo subsp. texana

Field pumpkin (Cucurbita pepo L.)-2

Active compounds pumpkin seeds-in Amino acids (0.2-0.7% kukurbitin) Kukurbitasin (tetracyclic triterpene derivative)-steroids, triterpene hydrocarbons called kukurbitan by generating and Glycoside. Mucilage Steroids (% 1) Sterols (0.5%; 24-alkilsterol "?-5-sterols," ?-7-sterols ") ?-Sitosterol Fixed oil (40-60%; linoleic acid, oleic acid



Cucurbitacin A

Cucurbitacin B

Cucurbitacin C

Cucurbitacin D

Cucurbitacin E

Cucurbitacin F

Cucurbitacin G

Cucurbitacin H

Cucurbitacin I

Cucurbitacin J

Cucurbitacin K

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! Cucurbitacin L ! Cucurbitacin O

Cucurbitacin (

Cucurbitacin P

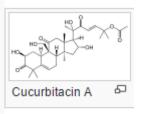
Cucurbitacin Q

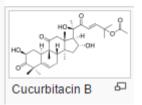
Cucurbitacin R

Cucurbitacin S

Cucurbitacin T

28/29 Norcucurbitacins





Field pumpkin (Cucurbita pepo L.)-39

55% effective against Taenia saginata cucurbitine in dust,. pumpkin seed

Domain Anthelmintic (seatworm, strips; cucurbita) diuretic Prostate tumors (I-II periods) and on the other hand, prevents Inflammation and Use benign/Dose, but rather is used to zoom out the Wolf and strips. Shell has been robbed after being transformed into dust seed or kernel, 30 in dogs-100 g of honey or milk while hungry by participating is applied; This 60 min after giving laxative parasites.























Other names: Amberparis, Dikenüzümü, Karamukağacı, Sarıağaç, Salome. Family: barberrygiller (Berberidaceae). Contour: the Black Sea (Kastamonu, Samsun), Thrac İstanbul is found widely around. The part used root bark (Cortex Berber Kala radi) (Fructus Berber Kala) leaf (Folium Berber Kala)

Barberry

Berberis vulgaris^[1]

Scientific classification

ingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

Order: Ranunculales

Family: Berberidaceae

Genus: Berberis

Species: B. vulgaris

Binomial name

Berberis vulgaris

L

Active compounds roots

; İzokuinolin alkaloids (umbellatin', berbamin, kolumbamin, oksiakantin ', palma, yatrorrhizin) **Mucilage Resinous** compounds are **Aromatic; Ascorbic acid Apple and lemon acids Rubber Pectin in leaves** and flowers; Alkaloidler (Barber)

Berberine

 Wheat mildew fungus (Puccinia gram affinis) Canada and the United States for breeding is the tool in some parts of the production yasaklanmuş.

The effect is a versatile effects the barber shop. The collection of fluid in the intestines, bacterial enterotoksin shape, smooth muscle spasms, Ion secretion, Cardiac fibrillation, Trombositlerin clustering. The effect of Class-III heart beats similar to drugs that prevent the irregular; AP duration and refraktor period extends.

• Effect-go Anti-diagnosis (kidney and cardiovascular system diseases modulates the level of prostaglandins) increases the secretion of bile and bilirubin. Antiparasitic (antel mintik-antigiardial, nematosidal-Toxocara canis, seatworm). Ake prevents the effectiveness. Adrenergic receptor antagonist is effective. Antibacterial effect of resistance to fast. Effect of interval endometritte eye diseases (52% improvement in intrautering growth retardation application)



Cytochrome p450 drug interactions with drugs metabolize adrenergic agents, antiarrhythmic, antibiotics (tetracyclines), centra nervous system suppressive drugs, cyclophosphamide, cardiac Glycoside, antihypertensive, General aneztezik Unwanted effects of lethargy, skin and eye problems, hypotension, dyspnea, gastrointestinal disorders, nephritis, nausea Berberinin Phototoxic effects.

The use of animals in small Dry plant: 25-3000 mg/kg, Infused/dekoksiyon: 5-10 g water 1/4, 1/2 10 kg animal to be given. 25-60% ethanollü extract: 10 kg animal 1:2-1:3: 05.5--Muslims speaking-1.5 ml







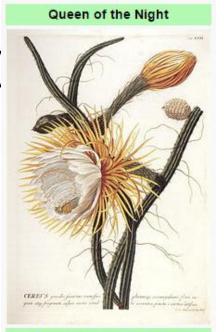
Queen of the night (Selenicereus grandiflorus L.)







Other names: prickly pear cactus. Cactus grandiflorus I./Cereus grandiflorus (I.) Miller Family: Cactus (Cactaceae).



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Core eudicots

Order: Caryophyllales

Family: Cactaceae

Subfamily: Cactoideae

Tribe: Hylocereeae

Genus: Selenicereus

Species: S. grandiflorus

Binomial name

Selenicereus grandiflorus

(L.) Britton & Rose, (1909) Contr. US

Nat. Herb. 2:430

Queen of the night(Selenicereus grandiflorus L.)

Main compounds The Petals; **Betasiyaninler Flavonol** Glycoside (1.5%) Flavonol Glycoside major (along with other names) Hiperin (hiperosid, kuerse-3β-Dgalaktopiranosid) Grandiflorin (kaempfer-3β-L-arabinosid) İzorhamnetin-3-0-β-(ksilosil)-rutinosid İzorhamnetin-3-0-β-(galaktosil)-rutinosid Kaempferitin (kaempfer-3, 7-0-dirhamnosid) Kaktisin

(% 0.02; izorhamnetin-3βgalaktosid) Narcissin (0.05%; likorin, izorhamnetin-3β-rutinosid) routine (rutosid, kuerse-3rutinosid), along with similar flavonoids in the body section of the plant; N-methyl N, N-dimethyl I put out my (Horde) amines such as foods with Tyramin (0.3% dry basis). All parts of the plant; Wicks Mucus **Resin Glycoside are Oils**





Queen of the night (Selenicereus grandiflorus L.)

• effect of the heart and items that are in the motor nerve stimulates the spinal cord, raises blood pressure. The effects of stimulating my tyranny etc materials (indirect-acting sympathomimetic) thought to have been coming forward; alone, these substances can create any effect in the amount of plant. Contained Flavonoids; Reduces the permeability of the veins and increases the durability. Lowers blood pressure. Corrects heart

beat irregularities

Queen of the night (Selenicereus grandiflorus L.)

 Positive inotropic effect. Drug interactions Cardiac drugs oxidase inhibitors kardiyoaktif Glycoside and Application sent immediately after the animals segment, and must of in the form of dilute solution (1:100)



EMEA/MRL/601/99-FINAL April 1999

COMMITTEE FOR VETERINARY MEDICINAL PRODUCTS

SELENICEREUS GRANDIFLORUS

Black pepper(Piper nigrum L.)







Other names: Pipera nigra L. Family: Piperaceae (Piperaceae).

Distribution: India and East India Islands. The part used Fruits (Fructus piperis nigricans; gather before ripening dries) these are delicious, tangy, burning and pain



Pepper plant with immature peppercorns

Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Magnoliids

Order: Piperales

Family: Piperaceae

Genus: Piper

Species: P. nigrum

Binomial name

Piper nigrum

L [1]

Black pepper(Piper nigrum L.)-2

 Anabileşenler Bitter substances Alkaloid (5%-9; piperin) Starch Resin Acılığı Essential ingredients, contained the scent of essential oil and resin piperin, comes forth from.



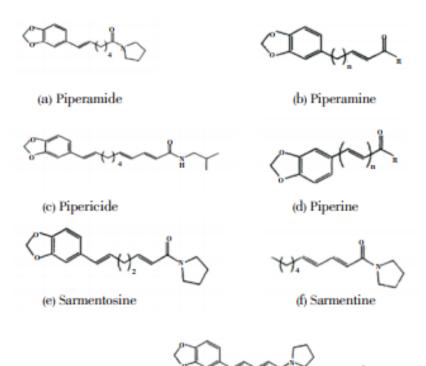


Figure 2: Some important derivatives of P. nigrum.

Black pepper(Piper nigrum L.)-3

 The effect is a bitter substance. Vessel narrowing. Constricts the Airways. Delays the emptying of the digestive tract. Vanilloid receptor agonist. Hemorrhoids, cold Antelmintik, antitripanazomal Use/Dose pill, easing to digest plenty of appetizing an aphrodisiac, Putty and infusion; Horses and

cattle: 5-25 g: 2-5 g Dog: 0.3-0.5 g





Black pepper(Piper nigrum L.)-4



• Inflammatuar diseases should be used with caution. Cytochrome p450 enzyme to metabolize the drug interactions with drugs, barbiturates, NSAIDS, propranolol, metilk view, if you are



Black pepper (Piper nigrum L.)-5

Use of black pepper (Piper nigrum) as feed additive in broilers diet

Galib A. M. Al-Kassie¹, Mamdooh A. M. Al-Nasrawi², Saba J. Ajeena³

Different effect of P. nigrum and Piperine

Piperine inhibit ascorbate-Fe++-induced lipid peroxidation

Piperine protected against oxidative stress induced carcinogenesis

Protection against diabetes induced oxidative stress

Inhibition / quenching of super oxides and hydroxyl radicals by piperine

Piperine protects Cu++-induced lipid per-oxidation

Decreased mitochondrial lipid peroxidation

Dietary black pepper/piperine reduces high fat diet induced oxidative stress

Inhibition of aryl hydroxylation

Decreased UDP-glucuronic acid concentration

Inhibition of O-deethylase activities in pulmonary microsomes

Inhibition of UDP-glucose dehydrogenase and UDP- glucuronyl transferase

Increased bioavailability of vaccine and sparteine

Enhanced systemic availability of propranolol and theo-phylline

Increased serum concentration

Delayed elimination of anti-epileptic drug

Enhanced bioavailability of β-lactam antibiotics

Increased plasma levels and delayed excretion of epigallo-catechin-3-gallate

Stimulation of digestive enzymes of Pancreas by dietary piperine

Increased orocecal transit time

Black pepper increased gastric acid secretion

Piperine modulated the membrane dynamics and permea-tion characteristics,

Reducing mutational events

Tumour inhibitory activity

Anti-metastatic activity of piperine on lung metastasis

Chemopreventive effect

Thermogenic action of piperine via adrenal catecholamine secretion

Growth stimulatory activity

Anti-thyroid activity

Piperine inhibited mitochondrial oxidative phosphorylation

Piperine exerted protection against t-butyl hydroperoxide

Piperine promoted cytotoxicity induced by benzo(α)pyrene

Piperine potentiated hepatotoxicity of carbon tetrachloride in rats

 Broilerlerde eating 0.50%-0.75-1 increase in body weight, feed consumption, when the increase in the overall performance was recorded and can be seen to increase.



Anti-apoptotic

Antibacterial

Anti-Colon toxin

Antidepressant

Antifungal

Analgesic

Antidiarrhoeal

Anti-inflammatory

Antimutagenic

Anti-metastatic activity

Antioxidative

Antiriyretic

Immuno-modulatory

Antispasmodic

Asthma, obesity, sinus

Antispermatogenic

Antithyroid

Antitumor

Ciprofloxacin potentiator

Colic

Cold extremities

Gastric ailments

Hepatoprotective

Increase plasma

Increase pancreatic enzymes

Inhibit cytochrome

Inhibit transcription

Insecticidal activity

Intermittent fever

Larvisidal activity

Pesticidal activity

Black mustard(Brassica nigra (L.) Koch.)







Other names: Eşekhardalı, Eşekturpu, Siyahhardal. Sinapis nigra l. Family: Hardalgiller (Brassicaceae/Cruciferae). Description: yellow-flowered, annual herbaceous plant. It is found in Europe and Anatolia: the Iran. Similar species: Brassica elongata Ehrh., b. the fee Lam., b. napus l.. esculenta DC., b. oleracea l.. capitat l., b. oleracea l. var. botrytis l., b. rapa l., b. rapa. esculenta G.G.



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Rosids

Order: Brassicales

Family: Brassicaceae

Genus: Brassica

Species: B. nigra

Binomial name

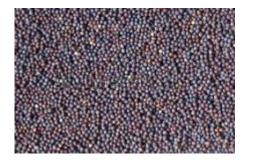
Brassica nigra

L.

Black mustard (Brassica nigra (L.) Koch.)-2

• The part used Seed (Semen sinapis nigrae, Mustard seed) Oil (Oleum sinapis; Mustard oil) Fire (Carta sinapisata) between the months of August and September. 0.5-1 mm in diameter, dark-red-blackish-gray, globe-shaped pellets. All, then, is odorless; emits the smell of custom as being crushed mustard; the taste is insipid, then before.



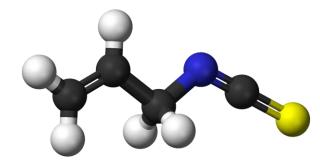


Black mustard(Brassica nigra (L.) Koch.)-3

• Allilizotiyosiyanat H2Contained Ncis the domain (organosülfür compound, mustard oil, oral lethal dose 0.34 g/kg-toxic-extremely may cause severe skin dermal become stagnant is applied) is an effective antimicrobial, anti-cancer substance. When it is applied through the skin; İrkilti, jabbing pain and increased blood flow yangıya long exposure also leads to wounds and ulcers.







Black mustard (Brassica nigra (L.) Koch.)-4

Drug interactions with medications that are metabolized Antikoagulanlar, CYP1A2 Warning are lots of application should be avoided (individual applications) and should be sent to the sector immediately after application.



The European Agency for the Evaluation of Medicinal Products Veterinary Medicines Evaluation Unit

> EMEA/MRL/421/98-FINAL June 1998

COMMITTEE FOR VETERINARY MEDICINAL PRODUCTS

SINAPIS NIGRAE SEMEN







Other names: Mayasılotu. S. asperum Lepech., s. tuberosum I.. Family: Boraginaceae (Boroginaceae). Distribution: in our country, Bursa and Trabzon-grows in the Zigana mountain. The part used root (Radix symphyti) Rhizome (Rhizoma symphyti) Leaves (Folia symphyti)

Symphytum officinale



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Asterids

Order: (unplaced)

Family: Boraginaceae

Genus: Symphytum

Species: S. officinale

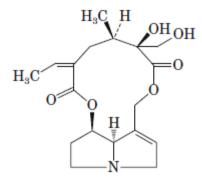
Binomial name

Symphytum officinale

L.

• Leaf: Mucilage, tannins, allantoin, simfatin (symphyt), Omega, BirB12 root: Allantoin, mucilage, phytosterols, teriterpenoid (isobauren), phenolic compounds, (kafeik, chlorogenic, litospermik acid), inülin, resin, starch, gum. Dieğr: Vitamins (riboflavin, niacin, Pantothenic acid, vit B12, vitA, vitC, vitE.





Pyrrolizidine alkaloid

 Inflammation of the stomach pain relief effect of Light shoots to wound healing preventive protect preventive Accelerator (the effects of rosmarinic particularly allantoin and related end) Softening effects. Coughing and bronchial irritation. Glikoalkaloidler, prints the CNS. Litospermik acid prevents the release of pituitary gonadotrophin from.

Perineum in rheumatoid arthritis damage tendons and be uperiosteum and bone damage to increase Callus formation for gastric and duodenal ulcer as supportive in the traumatic eye wounds in (blepharit, conjunctivitis)

• Can cause death in internal use (you alkaloids pirolizi hepatotoksik), the European Commission proposes to use externally only. Carcinogenic Externally wound in use on tissue and can cause the formation of abscess formation. Teratogenic, mutagenic, fötotoksin, human lymphocyte chromosomal damage in pregnant women and should not be used in milked-.



Clove (Syzygium aromaticum (L.) Merr et Perry)





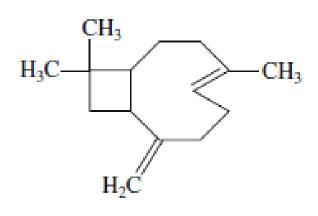


Other names: Eugenia caryophyllus Thunb./E.aromatica (L.) Baill, Caryophyllus aromaticus I./Jambosa caryophyllus (Spreng.) Nied./Myrtus caryophyllus Spreng. Family: Myrtaceae (Myrtaceae). Distribution: Molluk Islands, Zanzibar and the surrounding islands are raised in. The part used Flower buds (Flores caryophylli) Oil (Clove oil)



Clove (Syzygium aromaticum (L.) Merr et Perry)-2

Content of essential oil (20%)-Okechukwu, Okechukwu Sarah acetate, Alpha and beta karyofilen



Caryophyllene



Clove(Syzygium aromaticum (L.) Merr et Perry)-3

Fragrant effect-relaxing (aromatic) pain relief – local anesthetic Antihistamine Antimicrobial (bacteria, fungi, viruses, etc.) Antiseptic Liver protective antispasmodic Yükseltgenmeyi preventive effects.



Clove tree flowers



Clove (Syzygium aromaticum (L.) Merr et Perry)-4

• Dentistry dental treatment is exposed due to the influence of local pain relief during. COX and LOX activity. Trombositlerin prevents the build-up of a strong. Öjenol acetate and strengthens the effect of the trip metilöjen Saran. Clove oil Honey Bee larvae in Bacillus (us yavruçürüklüğü) and Ascosphaera apis (Lime disease)-prevents the development of reproduction-is used in preventive medicine.

Clove (Syzygium aromaticum (L.) Merr et Perry)-5



Clove oil fish (Trout children) is a good anesthetic for; 40-60 ppm (40-60 mg/L) Okechukwu Sarah anesthesia usually provides quick entry and exit.







Black cohosh (Actaea racemosa L.)







Other names: Chotima, Karayılankökü, Cohosh. Cimicifuga racemosa (I.) Nutt. Family: Kurtboğangiller (Ranunculaceae). (Racemosae Rhizoma) parts that are used in some countries has been presented with the trade name Remifemin tablet; each tablet 20 mg 1 mg you root against the active ingredient named 26-deoksiake.

Actaea racemosa



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

Order: Ranunculales

Family: Ranunculaceae

Genus: Actaea

Species: A. racemosa

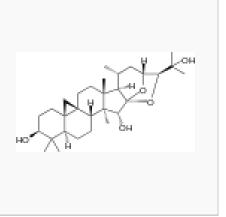
Binomial name

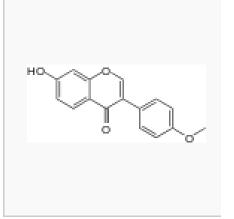
Actaea racemosa

L.

Black cohosh (Actaea racemosa L.)

 Content Triterpene compounds, alkaloids, izofe acid and salicylic acid effective substances. Triterpene compounds; (c imigenol) LH release and estrogenic receptors blocked (especially wl used with longer) reduces the hypothalamicpituitary system to help decompose cholesterol effects; reproductive, nervous, cardiovascular system leads to many secondary effect. **İzoflavonoidler (formononetin) prevents Uterine** estrogen receptors as local competition.





Cimigenol a constituent

Formononetin a



Black cohosh (Actaea racemosa L.)

Effects of Antispasmodic sedative, preventive, Ça cholesterol lowering, menstrual bleeding also has Nicotinic acetylcholine-mediated inhibits alerts (a antispasmodic effect) Asthma, perodik convulsion in neural eksitabilite, hysteria (used in behavioral



Black cohosh (Actaea racemosa L.)

• Is uterine stimulant-spontaneous aborta (but first pregnancy 1/3-point shootout challenge reducing uterine spasm during the period and antiabortif effects) with prolonged hepatotoxicity declared Dried plant: 25-200 mg/kg infusion can be used in the form of dekoksiyon, etnaollü statement/.



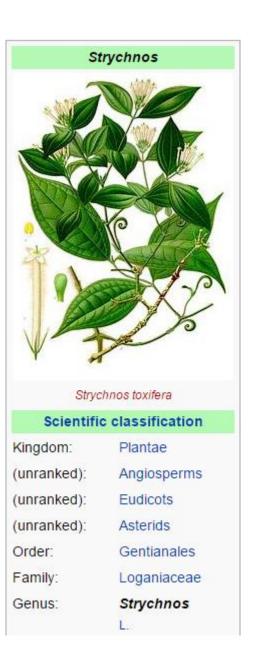
Strychnos (Strychnos toxifera L.)







Other names: Kargagözü. Strychnos nux-vomica I. Family: Yasemingiller (Loganiaceae). Distribution: India, Southeast Asia and grows in North Australia. The part used Tincture (Teint.de noix vomique) Seed (Semen strychni) Powder (Poudre de noix vomique)

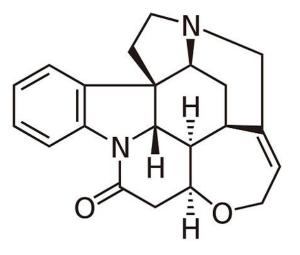


Strychnos (Strychnos toxifera L.)

• Anabileşenler Tohumlarda (fruit) Alkaloidler (% 2-5) Glycoside (loga) Fixed oil Alkaloidlerin 1.2% 1.6% of strychnine, the bru you; 12-15-hidroksist of the hidroksist and there is also a of the lyrics. Grain alcoholic extract and tincture of 16%, 0.25% alkaloids. Strychnine preparation of equivalent is as follows: 100 mg powder = 16 mg extract = 1000 mg of tincture; These are the 2.5 mg Total alkaloids.







Strychnos (Strychnos toxifera L.)

 Appetizing Nux Vomica to promote horses and cattle: 16-32 ml Appetite increase salivary sheep and goat: 1-4 ml flow easier to digest is used to stimulate the nervous system. (spinal stimulant) Racehorses use is forbidden. Nux Vomica seeds or powder preparation containing 3% Romanian laziness in 2-7

Force days for Beef: 100 g (i.e. 3 transmitter Used sexual g seed) sheep and goat: enhancement effect/dose 7.8 g cut Milk calf: 15 g because of the Bitter Taste lamb cut Milk: Tincture 5 g



psyllium (Plantago psyllium L.)







Other names: Sinirliot. P. scabra URMoench/P.arenaria Waldst. et Kit. Family: Sinirliotgiller (Plantaginaceae). Similar species: p. afra l., p. ovata, Forskal. Description: leaves and hairy body, annual, herbaceous plant. Distribution: in many places in our country (Thrace, İstanbul, Western Anatolia, Nif dağı, Gaziantep, Adana, etc.). The part used Seeds (Sandor psyllii, Semen plantag affinis) Fruits are picked when they have matured, and seeds.

psyllium (*Plantago psyllium* L.)-2

Content İridoidler (aucubin, katalp), mucilage, phenolic acids, flavonoids (apige, skutellarin, baikalein, nepetin, plantagosid), tannins, saponins, coumarin. Clinical effect of Antiinflammatuar, astrinjent (simmer down converter), demül aabsent (inflammatory, irritation)



psyllium (Plantago psyllium L.)-3

• In the digestive tract for digestion of softening effects of Laxative by absorbing water swells w comes to rehydrate (gelatinous mass); mass Enhancer laxative as the mRNA. Laxative effect 24 hours. to peak two to three times a day; It may take more than 3-4 days. Is very effective in sand gripes in horses; meet the sand is very effective in the collection and kayganlaştırılarak.

Valerian (Valeriana officinalis L.)





Other names: Çobankamışı, Şifalıkediotu. Family: Valerianaceae (Valerianaceae). Description: white-flowered, perennial, herbaceous plant. Distribution: Uludag, Kayse Grady, Baker-Erzurum between. 200 in the world, Turkey has about 10 in the Valerian plant. The part used root (Radix va Ierianae) Rhizome (Rhizoma va Ierianae) Oil (Oleu (unranked): va lerianae)

Valerian



Scientific classification

Kingdom: Plantae

Angiosperms

Eudicots (unranked):

(unranked): Asterids

Order: Dipsacales

Family: Caprifoliaceae

Genus: Valeriana

V. officinalis Species:

Binomial name

Valeriana officinalis

Valerian(*Valeriana officinalis* L.)-2

The content of essential oil (alpha and beta pinene, Borneol), sesquiterpene (va stays with me acid, valeranon), baldrin, phenolic acids. Dried root, gamma-aminobutyric acid (GABA), however there is no statement of an alcoholic. Striped Convulsive preventive muscle relaxant effect of antispasmodic Sedative/doğurucu (sedative/hypnotic)





$$H_3C$$
 CH_3
 O
 CH_3
 CH_3
 CH_3
 CH_3

Valepotriate

Valerian (*Valeriana officinalis* L.)-3



 Soothing/antispasmodic effects of GABAerjik nerves intermediation (at GABAA-RS n stimulation, GABA-uptake inhibition of Synapse range, such as the prevention of GABA metabolism) may be involved; valepotriat, valer n acid and essential oil ingredients affects these receptors (the amygdala in the brain region) there are also the barbiturate-like effect on the CNS. (Lignans-you're hidroksipinore) Fractionation Lignans built item (you're hidroksipinore) binds to the benzodiazepine receptor. MSS valepotriat and seskuiterpen found in the oil of impact to come forward. Valepotriatlar and seskuiterpen are-free aqueous extracts (GABA) tranklizan/anxiety-relieving, calming/sleep doğurucu creates the domain. Valepotriatlar is effective for soothing on the OSS.

Valerian (*Valeriana officinalis* L.)-4

• Tachycardia may result. Barbiturates and other central nervous system suppressor can interact with. Cat-dog: 25-300 mg/kg of dried root, 10 kg animal 5-10 g (1 cup water) 1/2-1/4 as dekoksiyon, 45-55 ethanollü statement 1:2-1:3: 0.5-1.5 mL (10 kg): 30-60 ml of fluid extract, oil (2-4 ml) farm animals: liquid statement (30-60 ml of cows; sheep-goat: 4-8 ml,; oil cattle 2-4 ml; sheep-goat 0.6-0.8 ml)

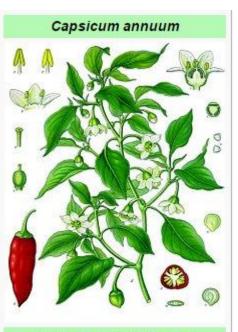
Red pepper (Capsicum annuum L.)







Other names: Hintbiberi, Türkbiberi. Family: Solanaceae (Nightshade Family). Similar species: c. Frutescens I. The part used dried fruit (Capsicum, Fructus caps) Oleo-resin (Capsicum Oleoresin capsicum)



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Asterids

Order: Solanales

Family: Solanaceae

Genus: Capsicum

Species: C. annuum

Binomial name

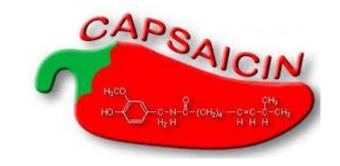
Capsicum annuum

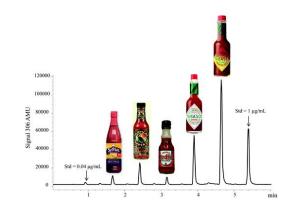
1

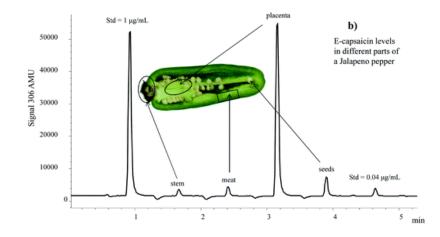
Red pepper (Capsicum annuum L.)-2

 Active compounds dried fruits contain capsaicin which is 0.3-1% sinoid% 63-77 capsaicin (8methyl-n-vanilil-6nonenamid) dihidrokaspai 20%-32% 1-8 nor-dihidrokapsai you a small amount of other derivatives, flavonoids, Ascorbic acid of capsaicin (dry pepper 95-150) mg/100 g) Carotenoids

(% 0.3-0.5) Fixed oils essential oil product (over 125) paprika oleoresin is usually one is a 1.5%; < for not less than 8% capsaicin.







Red pepper (Capsicum annuum L.)-3

 Influence of capsaicin or dihidrokapsai you are extremely bitter; even when the pain is felt in the 16 million solid dispersant; the term is associated with that property continue to consume system resources, such as the bitter pepper. Through the skin is extremely >% 1 preparations become stagnant. Capsaicin is an important part of that use (> 40%) consists of the combustion and jabbing pain; but, when used three times a day he repeated these decreases and disappears. When applied to the skin on the outside, to attack the skin, redness and blood leads; jabbing or burning sensation on the skin, warm/sensation is detected. This effect occurs in two stages. The initial short-term local, specifically improving the release of P-substance (who controls the unmyelinated C-type skin, nerves) and continues for several hours. I decreased the sensitivity to painful nerve endings (Tachyphylaxis-fast resistance) follows the second phase; This effect is a few hours to a few weeks (2-4 weeks).





Red pepper (Capsicum annuum L.)-4

• It will dull with for a long time the nerve endings; Thus, local anaesthetic and painkiller. When given by mouth; appetizer/karminativ is effective; Salivary flow increases, make it easier to digest, leads to sweat. It is effective against ulcers; This impact by increasing blood flow and speed up gastric mucosa regeneration is thought to have been created by. Plant the seed you are kapsisi found in antibacterial effect. Capsaicin dog, bird, deer, voles, rabbits, squirrel-like animals are also used as repellent to/kaçırtıcı. Not be used on racehorses.





1 July 2014 EMA/HMPC/674138/2013 Committee on Herbal Medicinal Products (HMI

Assessment report on *Capsicum annuum* L. var. *minimum* (Miller) Heiser and small fruited varieties of *Capsicum frutescens* L., fructus

Soft extract (DER 4-7:1), standardised to 2.0–2.78% total capsaicinoids, extraction solvent ethanol 80% (V/V)

Soft extract (DER 1.5–2.5:1), extraction solvent ethanol 96% (V/V)

Soft extract (DER 11-30:1), extraction solvent propan-2-ol

Cumin (Carum carvi L.)







Other names: Ermenikimyonu, Frenkkimyonu. Apium carvi Cr. Family: Apiaceae (An Annual Herb In The/Umbelliferae). Similar species: Carum caucasicum (M.B.) The result of decades., Carum copticum, Bent. meat Hooker f., c. m.a.s olium (Bieb.) The result of decades., a. multiflorum (S.S.) The result of decades. Description: White-Pink flowers, perennial, herbaceous plant. Distribution: it is found wild in the meadow in Eastern Anatolia; In the Marmara region culture. The part used Fruits (Fructus carvi) Fruit oil (Oleum carvi) Fruit brunette, bright yellowish-brown color, 4-6 mm long pellets.



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Asterids

Order: Apiales

Family: Apiaceae

Genus: Carum

Species: C. carvi

Binomial name

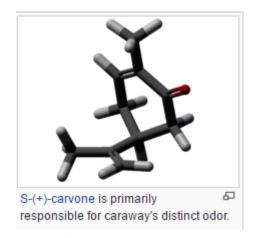
Carum carvi

L

Cumin (Carum carvi L.)-2

Essential oils: karvon, limonene and anetol Karminatif Karvon diuretic effect of Stimulating the easing to digest Diaphoretic, bacteria (b. subtilis, PS. aeruginosa) and mushrooms (As niger, c. albicans, skin fungus, etc.).







24 November 2014 EMA/HMPC/715094/2013 Committee on Herbal Medicinal Products (HMPC)

European Union herbal monograph on Carum carvi L., aetheroleum







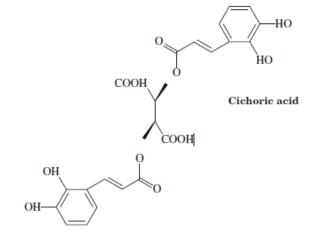
Family: Compositae (Asteraceae/Compositae). Description: e. purpurea AlNarrow-leaved purple coneflower, e. angustifolia, e. pallida, known as SolukNarrow-leaved purple coneflower PembeNarrow-leaved purple coneflower. Used part Topraküstü part (Echinasia herba) Roots (Echinacea radix) Roots fall or early spring; blooming flowers and shoots are collected at the beginning of the period.



Content Alkamid, kafeik acid derivatives or fenilpropanoid (kikhorik acid cichoric), ekinakozid, cynarin (e. purpureada), special link tetrasaccharide (arabinogala, ramnoarabinogala, inülin) and glycoproteins. Flavonoidlerden essential oil has in view and kamfer kerse. Chlorogenic acid

inflammation preventive
Antimicrobial (bacteria and fungi)
stimulates the immune system,
wound healing expectorant blood
purifier Local anesthetic Gas





 Stimulates and strengthens the immune system; plant and plant extract fat soluble portions of the macrophages are Phagocytic, water-soluble, they stimulate cellular immunity special link tetrasaccharide; accelerates the release of cytokines and TNF. Giving his first reaction to the formation of tumoral cells, especially natural killer (NK cells) increases of 2.5 times the number of (bone marrow and spleen with minimal impact); Thus, spontaneous tumor creates useful and protective effect against continuous. This condition is found in cancers such as leukemia.

 Fibroblastları hiyaluronidazın activity by stimulating and healing of the tissues and accelerates the repair it by blocking. The plant's roots are large amount of inulin; This article will speed up the movement of red blood cells to the area of infection, bacteria, viruses and other microorganisms makes it easier to fight against. Plant SAP ekonaz Sarah is effective on Candida albicans comparable extent. Acute and chronic bacterial and viral diseases, Septicemia (synergistic effects in combination with antibiotics); from the outside and from the inside, painful skin, ear, wound infections, snake, fly bites, ulcers, tumors are effective.



• The number of lymphocytes and neutrophils in circulation in horsesincreases, increases neutrophil activity in pigs-increases to take advantage of that feed in pigs-warns the immune system in dogsupper respiratory tract diseases effectively.



• It's better to endure unwanted effects/warning Narrow-leaved purple coneflowerna. Occasional digestive canal discomfort, dizziness and headaches can be seen in the language. Allergies, asthma, atopy, HIV/AIDS, multiple sclerosis, tuberculosis, immune diseases, rheumatism sufferers should stay away from the plant. Also, for a period of longer than two weeks should not be used.

 CYP3A4 substrate interact with drugs (diltiazem, doxorubicin, fentanyl, imipira, ketoconazole, klomipra, corticosteroids, ondansetron, Cyclosporine, Tacrolimus, vinblastin, following the initial) changes the metabolism.





27 March 2012 EMA/HMPC/688216/2008 Committee on Herbal Medicinal Products (HMPC)

Community herbal monograph on *Echinacea angustifolia* DC., radix

Coca-bush (Erythroxylum coca L.)







Family: Kokaağacıgiller (Erythroxylaceae). Similar species: e. recurrens, e. steyermarkii, e. truxillense. Distribution: South America (Peru, Bolivia, etc.) are plants that grow. The part used the leaves (Folia cocae)

Coca Erythroxylum coca



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Rosids

Order: Malpighiales

Family: Erythroxylaceae

Genus: Erythroxylum

Species: E. coca

Binomial name

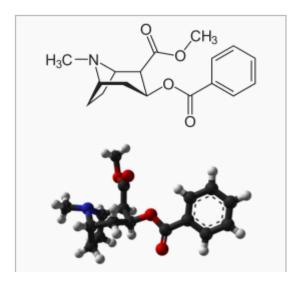
Erythroxylum coca

Lam.

Coca-bush (Erythroxylum coca L.)-2

 Anabileşenler rich Leaf alkaloid cocaine (% 07-2.5; benzoilmetilekgo); that 40-50% (-)-amonilkokain, tropokokain, metilekgo of cocaine Kokada sinn, izotropilkokain, kokai, α-truksillin, ⊡-truksillin, a very small amount of substances such as nicotine. Coke, karnawatprashant (amino alcohol) and benzoic acid ester. kokalı drinks in the 1800s has become very drunk. One of them, the Coca-Cola, coca (cocaine) and Cola (contains caffeine) extract is based on; in 1906 this drink Coke.





Coca-bush (Erythroxylum coca L.)-3



local anesthetic effect of Cocaine is -euphoric

hallucinations, then printing and demoralization.

Natives of South America/dose used by chewing coca leaves since way back in the form of hunger and thirst. Inside the tonic; a local anesthetic is used for the purpose from the outside. Fluid extract of horse and cattle: 30-120 g sheep and pig: 15-30 g

UYUŞTURUCU MADDELERE DAİR 1961 TEK SÖZLEŞMESİ

MICHAUC ZU

Koka ağacı ve koka yaprağı

1)Taraflardan biri, koka ağacı yetiştirilmesine, müsaade ettiği takdirde koka ağacı veya koka yaprağına 23 üncü madde de afyon haşhaşı için öngörülen kontrol rejimini uygulayacaktır. Bu maddenin 2 inci fikrasının (d)bendine gelince, bahis konusu Teşekkülün tabi tutulacağı yükümlülük, sadece ürünün alınmasından sonra, imkan haşıl olur olmaz tesellümünden ibaret olacaktır.

2)Taraflar, yabancı halde mevcut koka ağaçlarının hepsini imkan dairesinde söktüreceklerdir. Kanuna avkırı sekilde vetistirilen koka ağaçlarını imha edeceklerdir.

Bistort (Polygonum bistorta L.- Persicaria bistor







Other names: Çıyanotu, Cohosh. Family: Karabuğdaygiller (Polygonaceae). Similar species: in our country, there are many Polygonum type plant; some of them are: p. alpestre C. A. Meyer, p. alpinum All., p. aviculare I. (Çobandeğneği, Kadımalak, Kuşekmeği), p. cognatum Meissn. (16 July 1986, Çobanekmeği), p. hydropiper I. (Subiberi), p. orientale I. (Hanımsalladı). Description: dark-pink flowers, perennial, herbaceous opening. Distribution: Uludag, ilgaz mountain, Trabzon-Zigana mountains. Subsoil parts used parts (Rhizoma bistortae) Grassy parts (Herbae bistortae)

Persicaria bistorta



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Core eudicots

Order: Caryophyllales

Family: Polygonaceae

Genus: Persicaria

Species: P. bistorta

Binomial name

Persicaria bistorta

(L.) Samp.

Bistort (Polygonum bistorta L.- Persicaria bistorta)-2

Main components Antraquinone derivatives the snake Hydroxybenzoic acid Glucose red dye Starch Tannin (15-20%), Urine enhancer, Reinforcing the constructive use of/Constipation Dose styptic Exile preventive Fluid extracts of horse and cattle: 15-30 g of sheep and pig: 4-8 g dekoksiyon in humans (3%) to drink 4-5 cups per

day amount. Stay out of the snake





Nutmeg(*Myristica fragrans* Houtt.)







Other names: Miskcevizi. Family: Myrtaceae (Myrtaceae). Description: in winter the leaves of the Evergreen is a tree. Miss part of Walnut Kernel covering part used (Besbase, Macis) Seeds (Sandy myristicae) essential oil (Oleum aethereum myristicae) Oil (Oleum myristicae)



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Magnoliids

Order: Magnoliales

Family: Myristicaceae

Genus: Myristica

Species: M. fragrans

Binomial name

Myristica fragrans

Houtt.[1]

Nutmeg (Myristica fragrans Houtt.)-2

 Effect of convulsive constructor Halusinojenik Narcotic effects. These effects are especially miristi you. **Antimikrobiel** Arachidonic acid by inhibiting platelets aggregation and clot formation. Prevents Tromboksan synthesis. Drug, antiseptic, diuretic, used Gas appetizing.







Nutmeg (Myristica fragrans Houtt.)-3

 Gastrointestinal disorders (cramps, gas, diarrhea) Buzağılarda antidiyareal Biocidal activity in humans car follow-up of the vomiting, headaches and convulsions. Therefore, it is important and be used with caution in animals to be cut. recommended to use in animals rather than FRY,???.

COMMITTEE FOR VETERINARY MEDICINAL PRODUCTS

MYRISTICAE AETHEROLEUM

SUMMARY REPORT



Nutmeg (Myristica fragrans Houtt.)-4

Cytochrome p450 drug interactions interaction: CYP1A1, CYP1A2, CYP2E11 Flunitrazepam Monoaminoksidaz inhibitors





Centaury(Erythraea centaurium Pers./ Centaurium erythraea)







Other names: Kantarion, Kırmızıkantaron. Centaurium erythraea Rafn. Family: Kızılkantarongiller (Gentianaceae). Description: All parts are painful, red flowers, is a two-year, herbaceous plants. Distribution: widespread in Turkey (İstanbul Trakya, Uludağ, Zonguldak, Sinop, Giresun, Rize, Amasya, Erzincan, Adana).

Centaurium erythraea



Scientific classification

Kingdom: Plantae

(unranked): Angiosperms

(unranked): Eudicots

(unranked): Asterids

Order: Gentianales

Family: Gentianaceae

Genus: Centaurium

Species: C. erythraea

Binomial name

Centaurium erythraea

Rafn

Synonyms

Erythraea centaurium Centaurium minus Centaurium umbellatum

Centaury(Erythraea centaurium Pers./ Centaurium erythraea)-2

Topraküstü parts used parts (Herbae centaurii) are collected in a timely Topraküstü parts florescence; little bunched and dried in the shade. Anabileşenler Pain (iridoid Glycoside; erythromycin combination sentaurin, jensiyopikrin, swerosid, swertiamarin) Tannin essential oil Valeryanik acid Glue





Centaury(Erythraea centaurium Pers./ Centaurium erythraea)-3

Analgesic effects mouth-waterir Cholinergic muscarinic receptor stimulates (increases saliva and stomach secretions) Digestive Disorders of the stomach and Unwanted Effects easing Inflammation preventive nausea should not be used in case of Peptic ulcer

Adults and elderly

- a) Herbal tea: 1-4 g of the comminuted herbal substance in 200 ml of boiling water as a herbal infusion, up to 4 times daily
- b) Powdered herbal substance: single dose 0.25-2 g, up to 3 times daily
- c) Liquid extract: single dose: 2-4 ml, up to 3 times daily
- d) Tincture: single dose: 1.5-5 g, up to 3 times daily
- e) Soft extract: single dose 0.2 g; daily dose: 1-2 g

The use in children and adolescents under 18 years of age is not recommended (see section 4.4 'Special warnings and precautions for use').



24 November 2015 EMA/HMPC/277493/2015 Committee on Herbal Medicinal Products (HMPC)

European Union herbal monograph on *Centaurium erythraea* Rafn. s.l., herba Final

