

respiratory-tract disorders. It has also been used for intestinal amoebiasis.

Other *Euphorbia* spp. are used for a variety of disorders. The seeds and latex of *E. lathyris* (caper spurge) have been used as a purgative but are too toxic for general use. Many species have been used as arrow poisons.

Preparations

Proprietary Preparations (details are given in Part 3)

India: Thankgod.

Multi-ingredient: **Austral:** Asa Tones; Euphorbia Complex; Procoldf; Sambucus Complex; **Belg.:** Toularynx; **Canad.:** Sirop Cocillana Codeine; Sirop Cocillana Compose; **Hong Kong:** Cocillana Christo; Cocillana Com-pound; Meledra-N; **UK:** Antibron.

Euphrasia

Agentrost; Eufrasia; Euphrase; Eyebright.

Profile

Euphrasia, the aerial parts of various *Euphrasia* spp. including *E. rostkoviana* and *E. officinalis* (Scrophulariaceae), has been used topically for blepharitis, conjunctivitis, and other eye disorders. However, such use is not generally recommended. Euphrasia has also been used for nasal catarrh and sinusitis, and to prevent snoring.

Homoeopathy. Euphrasia has been used in homoeopathic medicines under the following names: Euphrasia officinalis; Euphrasia ex planta tota; Euph. of.

Preparations

Proprietary Preparations (details are given in Part 3)

UK: Snore Calm.

Multi-ingredient: **Austral:** Bilberry Plus; Euphrasia Complex; Euphrasia Compound; Eye Health Herbal Plus Formula 4; Lifesystem Herbal Plus Formula 5 Eye Relief; Sambucus Complex; **Ger.:** Herba-Vision Augenbad; **Ital.:** Altacura Ipragocce; Eulux; Iridil; **Malaysia:** Eyebright Plus; **Switz.:** Collypan; Oculosan; Tendro; **UK:** Se-Power; Vital Eyes.

Evening Primrose

King's Cureall; Onagre.

Profile

Evening primrose, the aerial parts of *Oenothera biennis* (Onagraceae) and related species of *Oenothera*, is reported to have sedative and astringent properties. It has been used in herbal preparations for respiratory and gastrointestinal disorders.

Evening primrose seed is the source of evening primrose oil (be-low), which is a source of essential fatty acids.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: **Ital.:** Sclerovis H.

Evening Primrose Oil

Helokkiöljy; Nakvišu aliejus; Nattljusolja; Oenotherae oleum; Olej wiesiolkowy; Olej wiesiolkowy bezpośrodnego tłoczenia (virgin evening primrose oil); Onagra, acete de; Onagre, huile d'; Pupalkový olej.

Pharmacopoeias. In *Eur.* (see p.vii).

Ph. Eur. 6.2 (Evening Primrose Oil, Refined; Oenotherae Oleum Raffinatum). The fatty oil obtained from the seeds of *Oenothera biennis* or *O. lamarkiana* by extraction and/or expression, and then refined. A suitable antioxidant may be added. A clear, light yellow or yellow liquid. Relative density about 0.923. Practically insoluble in water and in alcohol; miscible with petroleum spirit (b.p.: 40° to 60°). Store in well-filled, airtight containers under an inert gas. Protect from light.

Adverse Effects and Precautions

See Gamolenic Acid, p.2308.

Effects on the nervous system. Temporal lobe epilepsy was diagnosed after treatment with evening primrose oil in 3 patients who had previously been diagnosed as schizophrenic.¹ Tonic-clonic (grand mal) seizures occurred in 2 additional schizophrenic patients during treatment with evening primrose oil.² All of these patients had received or were taking phenothiazine antipsychotics.

- Vaddadi KS. The use of gamma-linolenic acid and linoleic acid to differentiate between temporal lobe epilepsy and schizophrenia. *Prostaglandins Med* 1981; **6**: 375-9.
- Holman CP, Bell AFJ. A trial of evening primrose oil in the treatment of chronic schizophrenia. *J Orthomol Psychiatry* 1983; **12**: 302-4.

Uses and Administration

Evening primrose oil is a source of linoleic and gamolenic acid which are essential fatty acids of the omega-6 series that act as prostaglandin precursors (see p.2308). Evening primrose oil has been given orally for the symptomatic relief of atopic eczema in usual doses of up to 3 grams twice daily; it is also used topically as a cream for the relief of dry or inflamed skin. Evening primrose oil has also been given orally for mastalgia. Evening primrose oil has been studied in a variety of other disorders including multiple sclerosis, rheumatoid arthritis, and the premenstrual syndrome. Mixtures of essential fatty acids (including EF-4, EF-

12, and EF-27) derived from evening primrose oil and other oils have also been investigated in various disorders, including diabetic neuropathy, restenosis after angioplasty, and skin damage after radiotherapy.

General references.

- Kleijnen J. Evening primrose oil. *BMJ* 1994; **309**: 824-5.

Eczema. For the use of evening primrose oil as a source of essential fatty acids for the management of eczema, see under Gamolenic Acid, p.2308.

Mastalgia. For the use of evening primrose oil as a source of gamolenic acid for the management of mastalgia, see p.2308.

Menopausal disorders. Although there are anecdotal reports of benefit, a controlled study¹ found that evening primrose oil was no more effective than placebo for managing menopausal vasomotor symptoms (p.2077).

- Chenoy R, et al. Effect of oral gamolenic acid from evening primrose oil on menopausal flushing. *BMJ* 1994; **308**: 501-3.

Multiple sclerosis. For the use of evening primrose oil in the management of multiple sclerosis, see under Gamolenic Acid, p.2308.

Premenstrual syndrome. For conflicting results from the use of evening primrose oil in premenstrual syndrome see under Gamolenic Acid, p.2308.

Rheumatoid arthritis. For the use of evening primrose oil as a source of gamolenic acid for the management of rheumatoid arthritis, see p.2309.

Preparations

Proprietary Preparations (details are given in Part 3)

Arg.: Efamol; **Austral.:** Bioglan Primrose Micelle; Naudicelle; **Canad.:** Efamol; Primanol; **Cz.:** Efamast; Epogam; **Fr.:** Bioleine; Bionagre; Bionagor; Osmonagre; **Ger.:** Epogam; Gammacur; Linola gamma; Neobonsen; Ünigamol; **India:** Simrose; **Ir.:** Epogam; Naudicelle; **Malaysia:** Primolin; **NZ:** Efamol; **Philipp.:** Eveprim; **Pol.:** Linoeparol; Oeparol; **S.Afr.:** Primolin; **Switz.:** Biennol; Efamol; Epogam; **UK:** Efamol; Evening Gold; Evoprim; Linola Gamma; **Venez.:** Eve 500.

Multi-ingredient: **Austral.:** Bioglan Arthri Plus; Bioglan Ginger-Vite Forte; Bioglan Primrose-E; Bioglan Zellulean with Escin; Efalex; Efamarine; For Women Multi Plus EPO; Maxepa & EPO; Medinat PMT-Eze; Naudicelle Marine; PMS Support; **Canad.:** Efalex; Glucosamine Joint & Muscle Cream with MSM; Primanol Borage Oil; **Fr.:** Bi-Osteo; Bionagrol Plus; Dioplect; GLA; Phytosolaire; Regederm; **Hong Kong:** Mumomega; Pregnacare; **Indon.:** Epocaldi; **Malaysia:** Prim E; VitaEPA Plus; **Mex.:** Rodan; **NZ:** Efalex; Efalex; Efamarine; Efamax; Mr Nits; **Pol.:** Alligol; Tran z Olejem Wiesiolkowym; **Port.:** Atopic; **S.Afr.:** CalmolinADD; Femolin PMS; **Singapore:** Vita Natal; VitaEPA Plus; **UK:** Efalex; Efamarine; Efamol PMP; PMT Formula; **USA:** Eucerin Itch-Relief.

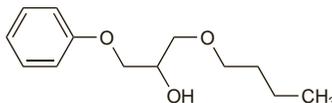
Febuprol (rINN)

Fébuprol; Febuproll; Febuprolum. 1-Butoxy-3-phenoxy-2-propanol.

Фебупрол

C₁₃H₂₀O₃ = 224.3.

CAS — 3102-00-9.



Profile

Febuprol is a choleric used in the treatment of biliary-tract disorders in an oral dose of 100 mg three times daily.

Preparations

Proprietary Preparations (details are given in Part 3)

Ger.: Valbil; **Port.:** Valbil.

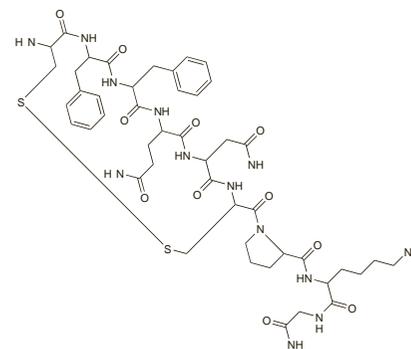
Felypressin (BAN, USAN, rINN)

Felipresina; Felipresinas; Felypressin; Felypressini; Felypressine; Felypressinum; Phelypressine; PLV2. [2-Phenylalanine,8-lysine]vasopressin; Cys-Phe-Phe-Gln-Asn-Cys-Pro-Lys-Gly-NH₂.

Фелипрессин

C₄₆H₆₅N₁₃O₁₁S₂ = 1040.2.

CAS — 56-59-7.



Pharmacopoeias. In *Eur.* (see p.vii).

Ph. Eur. 6.2 (Felypressin). A synthetic nonapeptide available as an acetate. A white or almost white powder or flakes. Freely soluble in water; practically insoluble in alcohol and in acetone. It dissolves in dilute solutions of alkali hydroxides. Store in airtight containers at a temperature of 2° to 8°. Protect from light.

Profile

Felypressin is a synthetic analogue of vasopressin (p.2411) with similar actions. Its antidiuretic effects are less than those of vasopressin. It is used as a vasoconstrictor in local anaesthetic injections for dental use when sympathomimetics should be avoided. It is also an ingredient of preparations that have been used in the treatment of pain and inflammation of the mouth.

Preparations

Proprietary Preparations (details are given in Part 3)

Used as an adjunct in: **Austral.:** Citanest Dental; **Braz.:** Citanest; Citocaina; **Denm.:** Citanest Octapressin; **Fin.:** Citanest Octapressin; **Ger.:** Xylonest; **Ital.:** Citanest con Octapressin; **Mex.:** Citanest Octapressin; Pristesin F; **Neth.:** Citanest Octapressin; **Norw.:** Citanest Octapressin; **NZ:** Citanest with Octapressin; **Spain:** Citanest Octapressin; **Swed.:** Citanest Octapressin; **Switz.:** Citanest Octapressin; **Turk.:** Citanest Octapressin; **UK:** Citanest with Octapressin.

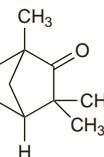
Fenchone

Fenchon. 1,3,3-Trimethylbicyclo[2.2.1]heptan-2-one.

Фенхон

C₁₀H₁₆O = 152.2.

CAS — 4695-62-9 ((+)-fenchone); 7787-20-4 ((-)-fenchone); 1195-79-5 ((±)-fenchone).



Profile

Fenchone is a constituent of several essential oils. It has been used in preparations in the treatment of biliary and urinary-tract disorders. It is reported to have counter-irritant properties. Fenchone is also used as a flavour and in perfumery.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: **Austria:** Rowatinex; **Chile:** Rowatinex; **Cz.:** Rowatinex; **Ger.:** Rowatinex; **Hong Kong:** Neo-Rowatinex; Rowatinex; **Hung.:** Rowatinex; **Ir.:** Rowatinex; **Israel:** Rowatinex; **Malaysia:** Rowatinex; **Philipp.:** Rowatinex; **Pol.:** Rowatinex; **Spain:** Rowanefrin; **Thai.:** Rowatinex; **Venez.:** Rowatinex.

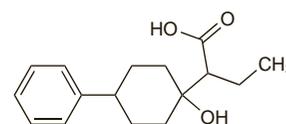
Fencibutirof (USAN, rINN)

Fencibutirofolum; Mg-4833. 2-(1-Hydroxy-4-phenylcyclohexyl)butyric acid.

Фенцибутирол

C₁₆H₂₂O₃ = 262.3.

CAS — 5977-10-6.



Profile

Fencibutirof is a choleric that has been used in the treatment of constipation and biliary-tract disorders.