

appearance of neurological symptoms is currently being studied with some encouraging results.⁷ There is some evidence to suggest that the childhood form may have an immunological component, but results using immunosuppressants or immunoglobulins have been reported to be disappointing.⁵ Bone marrow transplants may improve symptoms but should only be tried in those with mild cerebral involvement.¹ Lovastatin can also reduce plasma concentrations of very-long-chain fatty acids.⁸

1. van Geel BM, et al. X linked adrenoleukodystrophy: clinical presentation, diagnosis, and therapy. *J Neurol Neurosurg Psychiatry* 1997; **63**: 4-14.
2. Moser HW, et al. Adrenoleukodystrophy: new approaches to a neurodegenerative disease. *JAMA* 2005; **294**: 3131-4.
3. Aubourg P, et al. A two-year trial of oleic and erucic acids ("Lorenzo's oil") as treatment for adrenomyeloneuropathy. *N Engl J Med* 1993; **329**: 745-52.
4. Kaplan PW, et al. Visual evoked potentials in adrenoleukodystrophy: a trial with glycerol trioleate and Lorenzo oil. *Ann Neurol* 1993; **34**: 169-74.
5. Rizzo WB. Lorenzo's oil—hope and disappointment. *N Engl J Med* 1993; **329**: 801-2.
6. van geel BM, et al. Progression of abnormalities in adrenomyeloneuropathy and neurologically asymptomatic X-linked adrenoleukodystrophy despite treatment with "Lorenzo's oil". *J Neurol Neurosurg Psychiatry* 1999; **67**: 290-9.
7. Moser HW, et al. Follow-up of 89 asymptomatic patients with adrenoleukodystrophy treated with Lorenzo's oil. *Arch Neurol* 2005; **62**: 1073-80.
8. Pai GS, et al. Lovastatin therapy for X-linked adrenoleukodystrophy: clinical and biochemical observations on 12 patients. *Mol Genet Metab* 2000; **69**: 312-22.

Adverse effects. Thrombocytopenia has been reported in patients receiving Lorenzo's oil, although patients are often asymptomatic.¹ It is possible that giant platelets which retain most of their function are produced and that these are not counted by automatic counting procedures giving a false impression of thrombocytopenia.²

Lymphocytopenia with an increased incidence of infection has also been reported in few patients.³

1. Zinkham WH, et al. Lorenzo's oil and thrombocytopenia in patients with adrenoleukodystrophy. *N Engl J Med* 1993; **328**: 1126-7.
2. Stöckler S, et al. Giant platelets in erucic acid therapy for adrenoleukodystrophy. *Lancet* 1993; **341**: 1414-15.
3. Unkrig CJ, et al. Lorenzo's oil and lymphocytopenia. *N Engl J Med* 1994; **330**: 577.

Preparations

Proprietary Preparations (details are given in Part 3)
Ital.: GTO Oil.

Lovage Root

Gelsivj šaknys; Korzeń lubczyjka; Lestyángyökér; Levisticí radix; Levisticó; Libeckový kořen; Libstickerot; Liebstöckelwurz; Liper-injuuri; Livèche (racine de); Livèche, racine de.

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

Ph. Eur. 6.2 (Lovage Root). The whole or cut, dried rhizome and root of *Levisticum officinale*. The whole drug contains not less than 0.4% w/w of essential oil and the cut drug not less than 0.3% w/w of essential oil, calculated with reference to the dried drug. Protect from light.

Profile

Lovage root is used in herbal medicine for gastrointestinal and urinary-tract disorders.

Preparations

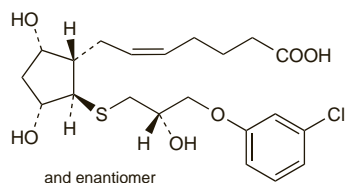
Proprietary Preparations (details are given in Part 3)

Multi-ingredient: **Austria:** Ehrenhofer-Salbe; **Cz.:** Zaluďecní Cajova Smes; **Ger.:** Canephron; Nephroselect M; Presselin Nieren-Blasen K 3†; **Rus.:** Canephron N (Канефрон Н); **Switz.:** Tisane pour les reins et la vesie.

Luprostiol (BAN, rINN)

Luprostioli; Luprostiolium. (±)-(Z)-7-[(1S,2R,3R,5S)-2-[(2S)-3-(3-Chlorophenoxy)-2-hydroxypropylthio]-3,5-dihydroxycyclopentyl]hept-5-enoic acid.

Лупроштиол
C₂₁H₂₉ClO₆S = 445.0
CAS — 67110-79-6.
ATC Vet — QG02AD91.



The symbol † denotes a preparation no longer actively marketed

Profile

Luprostiol is a synthetic analogue of dinoprost (prostaglandin F₂). It is used as a luteolytic in veterinary medicine.

Lupulus

Apyñyi spurgai; Chmelová štišice; Hop Strobile; Hopfenzapfen; Hops; Houblin; Houblon, cône de; Humalankukka; Humlekotte; Humulus; Komlótoz; Lupuli flos; Lupuli Strobilus; Lúpulo; Stro-bili Lupuli; Szyzka chmielu.

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

Ph. Eur. 6.2 (Hop Strobile). The dried, generally whole, female inflorescences (strobiles) of the hop plant *Humulus lupulus*. It has a characteristic aromatic odour. Protect from light.

Profile

Lupulus has been used as a bitter, and supplies the characteristic flavour of beers. It is used in herbal and folk medicine as a sedative.

Homoeopathy. Lupulus has been used in homoeopathic medicines under the following names: Humulus lupulus; Lupulinum; Humulus lupulus e glandulis; Lupul.

Preparations

Proprietary Preparations (details are given in Part 3)

Ger.: Lactidom†; **Rus.:** Novo-Passit (Ново-Пассит); **Switz.:** Klosterfrau Nervenruh Dragees.

Multi-ingredient: **Arg.:** Calmtabs†; **Austral.:** Extralife Sleep-Care; Humulus Compound; Natural Deep Sleep; Pacifinity†; Passiflora Complex†; Passionflower Plus; Prosed-X†; ReDormin; Relaxaplex†; **Austria:** Baldracin; Baldrian AMA; Hova; Montana; Nervenruh; Nerventee St Severin; Sedadom; Wechseltsee St Severin; **Braz.:** Remilev; **Canad.:** Herbal Nerve; Herbal Sleep Well†; Relax and Sleep; **Chile:** Valupass; **Cz.:** Baldracin; Detsky Caj s Hermankem; Fytokliman Planta; Hova; Klosterfrau Beruhigungs Fortej†; Novo-Passit; Sanason; Schlaf-Nerventee N†; Species Nervinae Planta; Valofyt Neo; Visinal†; **Fr.:** Nostress; Notabac; **Ger.:** Alluna Nacht; Ardeyson; Avedorm duo; Baldrian-Dispernt Nacht; Baldriparan N Stark†; Biosedon†; Boxocalm; Cefasedativ†; Dormeasan; Dormoverlan; Gut-nacht†; Hicoton†; Ila Rogoff; JuDorm†; Kneipp Gute Nacht; Kytta-Sedativum; Leukona-Beruhigungsbad†; Lomasleep†; Luvased; Moradorm S; Nervendragees†; Nervenkapselfen; Nervinfant N†; Nervoregin forte†; Nervoregin phyto; Pasosedon; Phytogran†; Presselin Nerven K 1 N†; Schlaf- und Nerventee; Seda-Plantina†; Sedacur; Sedaselect D; Sedasyx†; Selon; Sensinerv forte†; Somnuvis S†; Stomasal; Valdisperit comp†; Valeriana mild†; Valverde Baldrian Hopfen bei Einschlafstörungen und zur Beruhigung†; Vivinox Day; **Hung.:** Hova; ReDormin; Sedacur; **Israel:** Nerven-Dragees; **Ital.:** Calmason; Emmenoiasi; Melissa (Specie Composita)†; Valeriana (Specie Composita)†; **Mex.:** Ivel; Nervinetas; **Pol.:** Calminia; Hova; Kalms; Klimax†; Lekosen; Lumeval; Nervendragees; Nervinolum; Nervomix; Nervosol; Nervobonisol; Passispasmin; Passispasmod; Sedomix; Tabletki Uspokajajace; Vallup; Valused; **Rus.:** Doppelherz Vitalotonik (Доппелъгеру Виталотоник); Passifit (Пассифит); Sanason (Санасон); **S.Afr.:** Avena Sativa Comp; **Switz.:** Baldriparan; Dicalm†; Dormeasan; Dragees pour le coeur et les nerfs; Dragees pour le sommeil; Dragees sedatives Dr Welti; Hova; Hyperforce comp; Nervinette; Phytomed Nervo†; Phytomed Somni†; ReDormin; Relaxo; Soporin; Tisane calmante pour les enfants; Tisane pour le sommeil et les nerfs; Valverde Coeur; Valverde Sommeil; Zeller Sommeil; **UK:** Anased; Avena Sativa Comp; Gerard House Serenity; Gerard House Somnus; HRI Calm Life; HRI Night; Kalms; Kalms Sleep; Natrasleep; Newrelax; Nodoff; Nytol Herbal; Quiet Days; Quiet Life; Quiet Nite; Quiet Tyme; Relax B ; Slumber; Somnex Herbal; Stressless; Unwind Herbal Nytol; Valeriana Night-Time; Ymea; **Venez.:** Inscap; Lupassin; Nervinetas.

Lycopene

E160(d).
CAS — 502-65-8.

Pharmacopoeias. In *US* which also includes Tomato Extract Containing Lycopene.

USP 31 (Lycopene). A mixture of geometrical isomers of lycopene. Store in airtight containers under an inert gas at a temperature of 8° to 15°. Protect from light.

Profile

Lycopene is a carotenoid responsible for the red colour of tomatoes and some other fruits including rose fruit (p.2381). It is used as a colouring agent and antioxidant. Much interest has been expressed in the antioxidant properties of lycopene for the potential prevention of diseases such as cardiovascular disease and some cancers, particularly of the prostate gland. Lycopene is also an ingredient of some skin preparations.

References.

1. Everson KM, McQueen CE. Lycopene for prevention and treatment of prostate cancer. *Am J Health-Syst Pharm* 2004; **61**: 1562-6.

Preparations

Proprietary Preparations (details are given in Part 3)

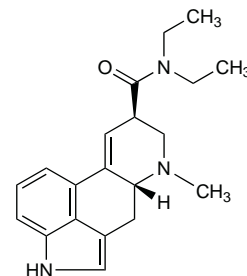
Arg.: Licopenox.

Multi-ingredient: **Arg.:** Natubrown; **Braz.:** Licovit; **Fr.:** Phytolongbronze; Phytosolaire; **Hong Kong:** Palmetto Plus†; **India:** Lycored; **Indon.:** Legres; Legreskin; Lycoq; Optimax; Stacare; **Philipp.:** Nutrotal; **Singapore:** Palmetto Plus.

Lysergide (BAN, rINN)

Lisergida; Lisérgido; LSD; LSD-25; Lysergic Acid Diethylamide; Lysergidium. (+)-NN-Diethyl-D-lysergamide; (6aR,9R)-NN-Diethyl-4,6,6a,7,8,9-hexahydro-7-methylindolo[4,3-f]quinoline-9-carboxamide.

Лизергид
C₂₀H₂₅N₃O = 323.4
CAS — 50-37-3.



NOTE. The following terms have been used as 'street names' (see p.vi) or slang names for various forms of lysergide: 25; 25s; 100s; A; Acid; Acid tabs; Acido; Aeon flux; Alice; Alphabet; Angel tears; Angry paper; Animal; Barrels; Bart Simpson; Battery acid; Beast; Beavis & Butthead; Bells; Bevis & Butthead; Big D; Big daddy; Bird head; Birdhead; Black acid; Black star; Black sunshine; Black tabs; Blackbird; Blaze; Blotter; Blotter acid; Blotter cube; Blotters; Blue acid; Blue barrels; Blue chairs; Blue cheers; Blue fly; Blue heaven; Blue heavens; Blue microdot; Blue mist; Blue moons; Blue star; Blue tabs; Blue vials; Boomers; Brown bombers; Brown dots; Buvard; California sunshine; Cap; Caps; Casper the ghost; Caviar; Cheap basing; Cheers; Chief; Chinese dragons; Cid-drip the entertainer; Chocolate chips; Church; Cid; Class; Coffee; Colors; Comic book; Conductor; Contact lens; Crackers; Crystal; Crystal tea; Cube; Cupcakes; D; Deeda; Dental floss; Diablo; Dinosaurs; Domes; Dose; Doses; Dossure; Dots; Double dome; Dandy; DSL; El Cid; Electric Kool Aid; Ellis Day; Elvis; Eye Candy; Felix; Felix the Cat; Fields; Flash; Flashers; Flat blues; Flats; Flying triangle; Frogs; Fry; Gel; Gel caps; Gelatine squares; Gelbat; Ghost; God's flesh; Golden dragon; Golf balls; Goofy's; Gooney birds; Grape parfait; Green double domes; Green single dome; Green single domes; Green wedge; Grey shields; Groovy lemon; Hats; Hawaiian sunshine; Hawk; Haze; Head light; Head lights; Headlights; Heaven; Heavenly; Heavenly blue; Illusions; Infinity; Instant zen; Jesus Christ acid; Kaliedescope; Keys to the kingdom; L; LAD; Lake Shore Drive; Laogor; Lason daga; Lason sa daga; Lavender; LBJ; Leary's; Lenos; Lens; Lids; Lime acid; Little smoke; Live, Spit and Die; Logor; Loony Toons; LSD; LSD-25; Lucy; Lucy in the sky with diamonds; Magic Tickets; Mellow yellow; Mickey's; Microdot; Microdots; Midnight Quinn; Mighty Quinn; Mikes; Mind blow; Mind detergent; Mist; Mister Natural; Monstre rouge; Monstre vert; Monterey Purple; Moons; Mother of God; Newspapers; One way; One-way; Optical illusions; Orange ba; Orange barrels; Orange cubes; Orange haze; Orange micro; Orange sunshine; Orange wedges; Owsley; Owsley's acid; Owsley's blue dot; Ozzie's stuff; Pane; Paper; Paper acid; Peace; Peace tablets; Peaks; Pearly gates; Pellets; Pepa; Phoenix; Pills; Pink blotters; Pink panther; Pink robots; Pink wedge; Pink wedges; Pink witch; Pink witches; Pizza; Potato; Pure love; Purple barrels; Purple dome; Purple dots; Purple flats; Purple gel tabs; Purple haze; Purple hearts; Purple mikes; Purple ozoline; Purple wedge; Pyramid; Pyramids; Rain Drops; Rainbow; Recycle; Red lips; Rips; Royal blues; Roz-rox; Russian sickles; Sacrament; Sandoz; Serenity; Sheets; Shields; Sherman; Sid; Smears; Smiley; Snowmen; South parks; Specks; Square dancing tickets; Squirrel; Stamp; Stanley's stuff; Star; Strawberries; Strawberry; Strawberry fields; Sugar; Sugar cubes; Sugar lumps; Sunrise; Sunshine; Sunshine Acid; Superman; Syd; T; Tab; Tabs; Tail lights; Teddy bears; The Ghost; The Hawk; Ticket; Tickets; Ticket to ride; Timothy Leary; Timothy Leary Ticket; Trip; Trippers; Trips; Twenty-five; Uncle Sid; Uncle Sidney; Valley dolls; Vodka acid; Volcano 5; Vulcoos; Wafer; Waffles; Watercolors; Wedding bells; Wedge; Wedges; White dust; White lightning; White Owsley's; Window glass; Window pane; Woodstock; Yellow; Yellow dimples; Yellow sunshine; Yellows; Ying Yang; Zen; Zig Zag man.

Profile

Lysergide was formerly used therapeutically but is now encountered as a drug of abuse for its hallucinogenic and psychedelic properties.

There is considerable variation in individual reaction to lysergide. Disorders of visual perception are among the first and most constant reactions to lysergide. Subjects may be hypersensitive to sound. Extreme alterations of mood, depression, distortion of body image, depersonalisation, disorders of thought and time sense, and synaesthesia may be experienced. Anxiety, often amounting to panic, may occur (a 'bad trip'). Duration of effects may last for up to 12 hours after ingestion, although hallucinations can sometimes last up to 48 hours and psychoses for up to 4 days. The effects of lysergide may recur months after ingestion

The symbol ⊗ denotes a substance whose use may be restricted in certain sports (see p.vii)