Uses and Administration

Patent blue V is injected subcutaneously to colour the lymph vessels so that they can be injected with a contrast medium. A dose of 0.25 mL of the 2.5% solution diluted with an equal volume of sodium chloride 0.9% or lidocaine hydrochloride 1% injected subcutaneously in each interdigital web space has been used. Additional injections at different sites may be required when the lower limbs are to be examined. A bluish skin colour may develop after injection but usually disappears after 24 to 48 hours.

Patent blue V is used as a food colour.

Malignant neoplasms of the breast. Intradermal injection of patent blue V at the site of a primary breast tumour has been used to identify the associated lymph nodes,[1] but concern has been expressed regarding possible long-term staining of the skin.[2]

1. Borgstein PJ, *et al.* Intradermal blue dye to identify sentinel lymph-node in breast cancer. *Lancet* 1997; **349:** 1668–9.
2. Giuliano AE. Intradermal blue dye to identify sentinel lymph node in breast cancer. *Lancet* 1997; **350:** 958.

Pegademase *(rINN)*

PEG-ADA; Pegademasa; Pégadémase; Pegademasum; PEG-Adenosine Deaminase.

Пэгадемаза

ATC — L03AX04.
ATC Vet — QL03AX04.

NOTE. Pegademase Bovine is *USAN*.

Profile

Pegademase is a conjugate of adenosine deaminase, an endogenous enzyme that converts adenosine to inosine, with a macrogol (polyethylene glycol). Pegademase bovine is used in the treatment of severe combined immunodeficiency disease (SCID) associated with a deficiency of adenosine deaminase, in patients who are not suitable for bone marrow transplantation or in whom the transplantation has failed. It is given by intramuscular injection once every 7 days, in an initial dose of 10 units/kg; increments of 5 units/kg are then given weekly up to a usual weekly maintenance dose of 20 units/kg. A single dose of 30 units/kg should not be exceeded. Pegademase should be given with caution to patients with thrombocytopenia and avoided if the latter is severe.

◊ References.

1. Hershfield MS, *et al.* Treatment of adenosine deaminase deficiency with polyethylene glycol-modified adenosine deaminase. *N Engl J Med* 1987; **316:** 589–96.
2. Anonymous. Pegademase. *Med Lett Drugs Ther* 1990; **32:** 87–8.
3. Lee CR, *et al.* Pegademase bovine: replacement therapy for severe combined immunodeficiency disease. *DICP Ann Pharmacother* 1991; **25:** 1092–5.
4. Shovlin CL, *et al.* Adult presentation of adenosine deaminase deficiency. *Lancet* 1993; **341:** 1471.
5. Hershfield MS. Adenosine deaminase deficiency: clinical expression, molecular basis, and therapy. *Semin Hematol* 1998; **35:** 291–8.
6. Husain M, *et al.* Burkitt's lymphoma in a patient with adenosine deaminase deficiency-severe combined immunodeficiency treated with polyethylene glycol-adenosine deaminase. *J Pediatr* 2007; **151:** 93–5.

Preparations

Proprietary Preparations (details are given in Part 3)
USA: Adagen.

Pegaptanib Sodium *(BANM, USAN, rINNM)*

EYE-001; Natrii Pegaptanibum; NX-1838; Pegaptanib Octasodium; Pegaptanib sodico; Pégaptanib Sodique.

Натрий Пегаптаниб

CAS — 222716-86-1.
ATC — S01LA03.
ATC Vet — QS01LA03.

Adverse Effects and Precautions

Endophthalmitis has been reported in patients given pegaptanib sodium and patients should be monitored for signs of infections for a week after the procedure. Retinal haemorrhage, retinal detachment, iatrogenic traumatic cataract, and raised intra-ocular pressure have also been reported. Immediate or delayed intravitreous haemorrhage may occur after injection. Common but less serious ocular adverse effects include eye pain, irritation, inflammation, blurred vision, visual disturbances, corneal oedema, punctate keratitis, and vitreous floaters.

Non-ocular adverse effects that have been reported include headache, rhinorrhoea, bronchitis, diarrhoea, dizziness, nausea, and urinary-tract infections.

Hypersensitivity reactions, including anaphylaxis or anaphylactoid reactions, and angioedema have been reported rarely within several hours of a dose.

Pegaptanib is contra-indicated in patients with active or suspected ocular or periocular infections.

◊ Data from two concurrent international multicentre prospective randomised controlled studies[1] were analysed to assess the safety of pegaptanib after 2 years of treatment for neovascular (wet) age-related macular degeneration. The most common ocular adverse effects were attributed to the injection procedure and were transient and mild to moderate in intensity. Failure to follow the injection preparation protocol accounted for most cases of endophthalmitis. The incidence of adverse effects associated with systemic inhibition of vascular endothelial growth factor or severe ocular inflammation, cataract progression, or glaucoma was not higher in the pegaptanib-treated patients compared with patients receiving sham injections. Overall, the safety profile of pegaptanib was favourable in these studies.

1. D'Amico DJ, *et al.* VEGF Inhibition Study in Ocular Neovascularization (V.I.S.I.O.N.) Clinical Trial Group. Pegaptanib sodium for neovascular age-related macular degeneration: two-year safety results of the two prospective, multicenter, controlled clinical trials. *Ophthalmology* 2006; **113:** 992–1001.

Uses and Administration

Pegaptanib is a pegylated modified oligonucleotide (aptamer) given as the sodium salt in the treatment of neovascular (wet) age-related macular degeneration. It is given by intravitreal injection into the affected eye in a dose of 300 micrograms once every 6 weeks. Stopping or withholding treatment should be considered if there has been no demonstrable benefit after 2 consecutive injections (i.e. at the 12-week visit).

Pegaptanib is also under investigation as an adjunct in the management of diabetic retinopathy.

Age-related macular degeneration. Pegaptanib is a pegylated modified oligonucleotide (aptamer) used in the treatment of age-related macular degeneration (AMD) (p.785). It binds to and inhibits vascular endothelial growth factor (VEGF), which is a stimulant of angiogenesis thought to play a role in the neovascularisation and retinal changes associated with AMD. Pegaptanib is a selective antagonist of VEGF.[1,2]

Positive outcomes have been reported from two concurrent international multicentre prospective randomised controlled studies.[3] Vision loss was prevented and mean visual acuity improved in patients given 6-weekly injections of 300 micrograms, 1 mg, or 3 mg for 48 weeks compared with patients receiving sham injections. No dose-response relationship was found. In order to assess the effects of long-term therapy, patients who had been given pegaptanib in the first part of the study were then randomised at week 54 to receive either pegaptanib for a further 48 weeks or stop treatment, and patients who had been given sham injections were similarly re-randomised.[4] Results showed that patients given pegaptanib for a second year continued to derive additional benefit. A systematic review[5] of 5 randomised controlled studies found that pegaptanib was effective in reducing the risk of loss of visual acuity.

1. Siddiqui MAA, Keating GM. Pegaptanib: in exudative age-related macular degeneration. *Drugs* 2005; **65:** 1571–7.
2. Chapman JA, Beckey C. Pegaptanib: a novel approach to ocular neovascularization. *Ann Pharmacother* 2006; **40:** 1322–6.
3. Gragoudas ES, *et al.* Pegaptanib for neovascular age-related macular degeneration. *N Engl J Med* 2004; **351:** 2805–16.
4. Chakravarthy U, *et al.*. VEGF Inhibition Study in Ocular Neovascularization (V.I.S.I.O.N.) Clinical Trial Group. Year 2 efficacy results of 2 randomized controlled clinical trials of pegaptanib for neovascular age-related macular degeneration. *Ophthalmology* 2006; **113:** 1508–21.
5. Vedula SS, Krzystolik MG. Antiangiogenic therapy with anti-vascular endothelial growth factor modalities for neovascular age-related macular degeneration. Available in The Cochrane Database of Systematic Reviews; Issue 2. Chichester: John Wiley; 2008 (accessed 06/06/08).

Preparations

Proprietary Preparations (details are given in Part 3)
Braz.: Macugen; ***Canad.:*** Macugen; ***Cz.:*** Macugen; ***Fr.:*** Macugen; ***Gr.:*** Macugen; ***Pol.:*** Macugen; ***Port.:*** Macugen; ***Singapore:*** Macugen; ***UK:*** Macugen; ***USA:*** Macugen.

Penicilloyl-polylysine

Benzylpenicilloyl-polylysine; Peniciloil polilisina; PO-PLL; PPL.

CAS — 53608-77-8.

Description. Penicilloyl-polylysine is a polypeptide compound formed by the interaction of a penicillanic acid and polylysine of an average degree of polymerisation of 20 lysine residues per molecule.

Pharmacopoeias. *US* includes a concentrated form.

USP 31 (Benzylpenicilloyl Polylysine Concentrate). It has a molar concentration of benzylpenicilloyl moiety of not less than 0.0125 M and not more than 0.020 M. It contains one or more suitable buffers. It is not intended for direct administration. pH of the concentrate is between 6.5 and 8.5. Store in airtight containers.

Adverse Effects and Precautions

Severe hypersensitivity reactions have occasionally been reported after use of penicilloyl-polylysine; a scratch test is recommended before intradermal use.

Uses and Administration

Penicilloyl-polylysine is used to detect penicillin hypersensitivity. It is generally indicated only for adults with a history of penicillin hypersensitivity. After a preliminary scratch test it may then be given by intradermal injection. The development, usually within 5 to 15 minutes, of a wheal, erythema, and pruritus is generally judged a positive reaction. The incidence of penicillin hypersensitivity is stated to be less than 5% in patients showing a negative reaction. Penicilloyl-polylysine does not detect those liable to suffer late reactions or reactions due to minor antigen determinants; these reactions require other tests. False-positive reactions to penicilloyl-polylysine also occur.

Preparations

USP 31: Benzylpenicilloyl Polylysine Injection.

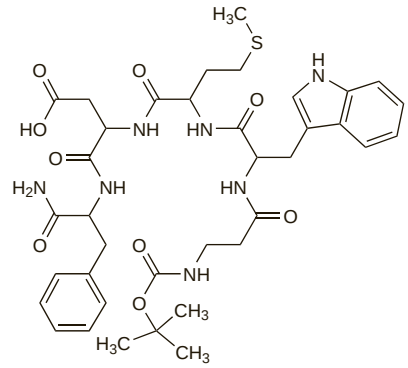
Proprietary Preparations (details are given in Part 3)
USA: Pre-Pen†.

Pentagastrin *(BAN, USAN, rINN)*

AY-6608; ICI-50123; Pentagastriini; Pentagastrina; Pentagastrine; Pentagastrinum. *tert*-Butyloxycarbonyl-[β-Ala[13]]gastrin-(13-17)-pentapeptide amide; Boc-β-Ala-Trp-Met-Asp-Phe—NH_2.

Пентагастрин

$C_{37}H_{49}N_7O_9S$ = 767.9.
CAS — 5534-95-2.
ATC — V04CG04.
ATC Vet — QV04CG04.



Pharmacopoeias. In *Br.* and *Chin.*

BP 2008 (Pentagastrin). A white or almost white powder. Practically insoluble in water; slightly soluble in alcohol; soluble in dimethylformamide and in 5M ammonia. Protect from light.

Adverse Effects

Pentagastrin may cause gastrointestinal effects including nausea and abdominal cramps. Cardiovascular effects including flushing of the skin, tachycardia, and hypotension have occasionally been reported. There may be headache, drowsiness, dizziness, and altered sensations in the extremities. Hypersensitivity reactions are rare.

Precautions

Pentagastrin should be given with care to patients with acute peptic ulceration or with active pancreatic, hepatic, or biliary-tract disease.

Uses and Administration

Pentagastrin is a synthetic pentapeptide that is not active when given by mouth but when given parenterally has effects similar to those of natural gastrin. Since it stimulates the secretion of gastric acid, pepsin, and intrinsic factor, it is used as a diagnostic agent to test the secretory action of the stomach. It has been used to diagnose disorders associated with increased or decreased gastric acid secretion and in the evaluation of gastric acid secretion following vagotomy or gastric resection. The usual dose is 6 micrograms/kg by subcutaneous or intramuscular injection. By intravenous infusion the dose is 600 nanograms/kg per hour, in sodium chloride 0.9%.

Pentagastrin stimulates the secretion of pancreatic enzymes and thus has been used as a test for pancreatic function. It has also been tried in the diagnosis of medullary carcinoma of the thyroid.

Preparations

BP 2008: Pentagastrin Injection.

Proprietary Preparations (details are given in Part 3)
Fr.: Peptavlon.

Black Pepper

Pepper; Pimenta; Piper.

CAS — 8006-82-4 (black pepper oil).

Pharmacopoeias. In *Chin.*, which describes both black and white pepper.

Profile

Black pepper is the dried unripe fruit of *Piper nigrum* (Piperaceae). It is used as a culinary spice and is included in some herbal remedies.

Pepper oil, obtained from black pepper, is used in aromatherapy.

White pepper is the ripe fruit with the outer part of the pericarp removed. It too is used as a culinary spice.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: ***Cz.:*** Klosterfrau Melisana; ***India:*** Happy'tizer; Tummy Ease; ***Philipp.:*** Bo-D-Fense; ***Pol.:*** Melisana Klosterfrau; ***Rus.:*** Maraslavin (Мараславин); Tentex (Тентекс).

Pepsin

Pepsiini; Pepsiinijauhe; Pepsin práškový; Pepsin, pulver; Pepsina; Pepsine; Pepsini Pulvis; Pepsino milteliai; Pepsinum; Pepszin-por.

CAS — 9001-75-6.
ATC — A09AA03.
ATC Vet — QA09AA03.

Pharmacopoeias. In *Chin.*, *Eur.* (see p.vii), and *Viet.* In *Jpn* as Saccharated Pepsin.

Ph. Eur. 6.2 (Pepsin Powder; Pepsin BP 2008). It is prepared from the gastric mucosa of pigs, cattle, or sheep. It contains gastric proteinases active in acid medium (pH 1 to 5). It has an activity of not less than 0.5 Ph. Eur. units/mg, calculated with reference to the dried substance. A hygroscopic, white or slightly yellow, crystalline or amorphous powder. Soluble in water; practically insoluble in alcohol. A solution in water may be slightly opalescent with a weak acidic reaction. Store at 2° to 8° in airtight containers. Protect from light.

Uses and Administration

Pepsin contains proteolytic enzymes secreted by the stomach, which control the degradation of proteins into proteoses and peptones. It hydrolyses polypeptides including those with bonds adjacent to aromatic or dicarboxylic L-amino-acid residues.

Pepsin has been given with dilute hydrochloric acid, or with substances such as glutamic acid hydrochloride, or betaine hydrochloride, as an adjunct in the treatment of gastric hypochlorhydria, or to treat deficiencies of digestive enzyme secretion. It has also been given for its supposed benefit as an ingredient of mixtures for dyspepsia and other gastrointestinal disorders.

Preparations

Proprietary Preparations (details are given in Part 3)

Canad.: Fermentol; ***Ger.:*** Hettral N†; ***Pol.:*** Mixtura Pepsini.

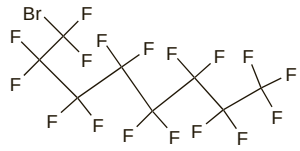
Multi-ingredient: ***Arg.:*** Docechol; Gastridin-E; Opoenterol†; Tridigestivo Soubeiran; ***Austral.:*** Betaine Digestive Aid; Bioglan Digestive Zyme; Digestaid; Enzyme; Prozyme†; ***Austria:*** Helo-acid; Helopanzym; Oroacid; ***Belg.:*** Digestomen; ***Braz.:*** Digeplus; Essen; Filogaster†; Hepatoregius†; Pantopept†; Peptopancreasi; Primeral; ***Chile:*** Flapex E; ***Ger.:*** Citropepsin†; Pepzitrat; ***Hung.:*** Betacid; ***India:*** Aristozyme; Digeplex; Digeplex-T; Dipep; Lupizyme; Nutrozyme; Papytazyme; ***Indon.:*** Librozym; Librozym Plus; ***Israel:*** Babyzim; Betazim; ***Ital.:*** Digestopan†; Essen Enzimatico†; Eudigestio†; Gastro-Pepsin; Pepto-Pancreasi†; ***Mex.:*** Ochozim; Zimotris; ***Philipp.:*** Spasmo-Canulase; ***Pol.:*** Citropepsin; ***Port.:*** Espasmo Canulase; Modulanzime; ***S.Afr.:*** Sentinel Ulcer Mixture; Spasmo-Canulase; ***Spain:*** Digestomen Complex; Euzymina Lisina I; Euzymina Lisina II; Troforex Pepsico; ***Switz.:*** Pepsi-Chlor†; Spasmo-Canulase; Stomacine; ***Thai.:*** Papytazyme†; Pepsitase; ***UK:*** Enzyme Plus; ***USA:*** Digepepsin.

Perflubron *(USAN, rINN)* ⊗

Perflubrón; Perflubronum; Perfluorooctylbromide; PFOB. 1-Bromoheptadecafluorooctane.

Перфлуброн

C_8BrF_{17} = 499.0.
CAS — 423-55-2.
ATC — V08CX01.
ATC Vet — QV08CX01.



Pharmacopoeias. In *US.*

USP 31 (Perflubron). A clear, colourless, practically odourless liquid. Store in airtight containers. Protect from light.

Profile

Perfluorocarbons can absorb, transport, and release oxygen and carbon dioxide. Perflubron is a perfluorocarbon tried as an alternative to red blood cell preparations to improve gaseous transport, in particular oxygen supply, to the tissues. It may also be instilled directly to the lungs for use in partial liquid ventilation as an adjunct to mechanical ventilation in patients with respiratory failure.

Perflubron is being studied for use as an intravenous contrast medium in computed tomography and ultrasound. It has also been given orally to enhance delineation of the bowel during magnetic resonance imaging.

Other perfluorocarbons have also been used. A mixture of perfluamine (perfluorotripropylamine) and perflunafene (p.2365) has been used to prevent myocardial ischaemia during percutaneous transluminal coronary angioplasty.

Perfluorocarbons such as perflunafene and perfluorooctane (p.2365) have been used in eye surgery.

Blood substitutes. References to the use of perflubron and other perfluorocarbons as oxygen carriers.

1. Garrelts JC. Fluosol: an oxygen-delivery fluid for use in percutaneous transluminal coronary angioplasty. *DICP Ann Pharmacother* 1990; **24:** 1105–12.
2. Ravis WR, *et al.* Perfluorochemical erythrocyte substitutes: disposition and effects on drug distribution and elimination. *Drug Metab Rev* 1991; **23:** 375–411.
3. Urbaniak SJ. Artificial blood. *BMJ* 1991; **303:** 1348–50.
4. Jones JA. Red blood cell substitutes: current status. *Br J Anaesth* 1995; **74:** 697–703.
5. Remy B, *et al.* Red blood cell substitutes: fluorocarbon emulsions and haemoglobin solutions. *Br Med Bull* 1999; **55:** 277–98.
6. Lowe KC. Perfluorinated blood substitutes and artificial oxygen carriers. *Blood Rev* 1999; **13:** 171–84.
7. Prowse CV. Alternatives to standard blood transfusion: availability and promise. *Transfus Med* 1999; **9:** 287–99.
8. Matsumoto S, Kuroda Y. Perfluorocarbon for organ preservation before transplantation. *Transplantation* 2002; **74:** 1804–9.
9. Jahr JS, *et al.* Blood substitutes and oxygen therapeutics: an overview and current status. *Am J Ther* 2002; **9:** 437–43.
10. Kim HW, Greenburg AG. Artificial oxygen carriers as red blood cell substitutes: a selected review and current status. *Artif Organs* 2004; **28:** 813–28.
11. Spahn DR, Kocian R. Artificial O2 carriers: status in 2005. *Curr Pharm Des* 2005; **11:** 4099–4114.
12. Riess JG. Perfluorocarbon-based oxygen delivery. *Artif Cells Blood Substit Immobil Biotechnol* 2006; **34:** 567–80.

Respiratory distress syndrome. References to the use of perfluorocarbons, including perflubron, for partial liquid ventilation in neonatal respiratory distress syndrome (p.1508) and acute respiratory distress syndrome (p.1498).

1. Hirschl RB, *et al.* Liquid ventilation in adults, children, and full-term neonates. *Lancet* 1995; **346:** 1201–2.
2. Leach CL, *et al.* Partial liquid ventilation with perflubron in premature infants with severe respiratory distress syndrome. *N Engl J Med* 1996; **335:** 761–7.
3. Hirschl RB, *et al.* Initial experience with partial liquid ventilation in adult patients with acute respiratory distress syndrome. *JAMA* 1996; **275:** 383–9.
4. Wolfson MR, Shaffer TH. Liquid assisted ventilation update. *Eur J Pediatr* 1999; **158:** S27–S31.
5. Davies M. Liquid ventilation. *J Paediatr Child Health* 1999; **35:** 434–7.
6. Weis CM, Fox WW. Current status of liquid ventilation. *Curr Opin Pediatr* 1999; **11:** 126–32.
7. Kacmarek RM. Liquid ventilation. *Respir Care Clin N Am* 2002; **8:** 187–209.
8. Davies MW, Fraser JF. Partial liquid ventilation for preventing death and morbidity in adults with acute lung injury and acute respiratory distress syndrome. Available in The Cochrane Database of Systematic Reviews; Issue 4. Chichester: John Wiley; 2004 (accessed 28/04/05).

Preparations

Proprietary Preparations (details are given in Part 3)

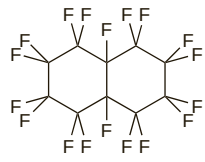
USA: Imagent GI; LiquiVent.

Perflunafene *(BAN, rINN)* ⊗

Perflunafène; Perflunafeno; Perflunafenum; Perfluorodecahydronaphthalene; Perfluorodecalin; Perfluorodekalin.

Перфлунафен

$C_{10}F_{18}$ = 462.1.
CAS — 306-94-5.



Profile

Perflunafene is a perfluorocarbon with similar properties to perflubron (above). Intra-ocular injection of perflunafene is used to provide temporary tamponade in ophthalmic procedures such as retinal re-attachment. Perflunafene and perfluamine have been used together for their oxygen-carrying properties in blood substitute preparations and to prevent myocardial ischaemia during percutaneous transluminal coronary angioplasty.

Preparations

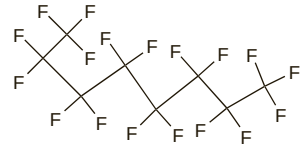
Proprietary Preparations (details are given in Part 3)

Israel: Adato-Deca†; ***Neth.:*** Eftiar Decalin; ***Turk.:*** DK-Line.

Perfluorooctane

Octadecafluorooctane; Perfluoro-*n*-octane; Perfluoro-octa.

C_8F_{18} = 438.1.
CAS — 307-34-6.



Profile

Perfluorooctane is a perfluorocarbon with similar properties to perflubron (above). Intra-ocular injection of perfluorooctane is used to provide temporary tamponade in ophthalmic procedures such as retinal re-attachment.

◊ References.

1. Scott IU, *et al.* Outcomes of surgery for retinal detachment associated with proliferative vitreoretinopathy using perfluoro-n-octane: a multicenter study. *Am J Ophthalmol*. 2003; **136;** 454–63.

Preparations

Proprietary Preparations (details are given in Part 3)

Israel: Adato-Octa†; ***Neth.:*** Eftiar Octane; ***USA:*** Perfluoron.

Persic Oil

Melocotón, aceite de; Oleum Persicorum; Peach oil.

Pharmacopoeias. *Chin.* and *Jpn* include Peach Kernel (Persicae Semen) and also Apricot Kernel (Armeniacae Semen).

Profile

Persic oil is the fixed oil expressed from the kernels of varieties of *Prunus persica* (peach) or *P. armeniaca* (apricot) (Rosaceae). It closely resembles almond oil (p.2252) in its general characteristics and is used as an oily vehicle.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: ***Fr.:*** Item Lentes.

Peru Balsam

Bals. Peruv.; Bálsamo del Perú; Balsamum peruvianum; Baume du Pérou; Baume du San Salvador; Peru balzamas; Peruánský balzám; Perubalsam; Perui balzsm; Perunpalsami; Peruvian Balsam.

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

Ph. Eur. 6.2 (Peru Balsam). The balsam obtained from the scorched and wounded trunk of *Myroxylon balsamum* var. *pereirae*. It contains not less than 45.0% w/w and not more than 70.0% w/w of esters, mainly benzyl benzoate and benzyl cinnamate.

A dark brown, viscous liquid which is not sticky, is non-drying, and does not form threads. It is transparent and yellowish-brown when viewed in a thin layer. Practically insoluble in water, freely soluble in dehydrated alcohol; not miscible with fatty oils except for castor oil. Protect from light.

Profile

Peru balsam has a very mild antiseptic action by virtue of its content of cinnamic and benzoic acids. Diluted with an equal part of castor oil, it has been used as an application to bedsores and chronic ulcers; it has also been used in topical preparations for the treatment of superficial skin lesions and pruritus. It is an ingredient of some rectal preparations used for the symptomatic relief of haemorrhoids (see p.1697).

Peru balsam is an ingredient of some preparations used in the treatment of respiratory congestion. It is also used in aromatherapy.

Skin sensitisation has been reported.

Preparations

Proprietary Preparations (details are given in Part 3)

Fr.: Tulle Gras Lumiere†; ***Pol.:*** Balsolan.

Multi-ingredient: ***Arg.:*** Anusol; Anusol Duo S; Anusol-A; ***Austral.:*** Anusol; Ayrton's Chilblain; ***Austria:*** Mamellin; Pudan-Lebertran-Zinksalbe; Pulmex; Rombay; Vulpuran; ***Belg.:*** Perubore; Rectovasol; ***Braz.:*** Anusol-HC; Balmex; Calminex H; Claudemor; ***Chile:*** Pulmex†; ***Cz.:*** Pulmex Baby†; Pulmex†; ***Fr.:*** Agathol; Anaxeryl; Balsofumine; Balsofumine Mentholee; Brulex; Dermophil Indien†; Oxyperol; Perubore; Pommade Lelong†; ***Ger.:*** Anusol†; Nasenbalsam; Nasenbalsam fur Kinder; Peru-Lenicet†; ***Hong Kong:*** Anusol; Anusol-HC†; Haemoral; ***Indon.:*** Sapona; ***Irl.:*** Anugesic-HC; Anusol; Anusol-HC; ***Israel:*** Anusol†; Hemo; Pulmex; ***Ital.:*** Anusol; Fomentil; ***Malaysia:*** Anucare; Anusol; ***NZ:*** Anusol; ***Pol.:*** Aromagel; Depulol; Hemorectal; Pulmex Baby; Rectosec; ***Port.:*** Claudemor†; ***Rus.:*** Pulmex (Пульмекс); Pulmex Baby (Пульмекс Бэби); Theraflu Bro (Терафлю Бро); ***S.Afr.:*** Anugesic; Heilsalbe; Ung Vernleigh; ***Singapore:*** Anusol; ***Spain:*** Antignetun; Balsamo Kneipp†; Cicatral; Grietalgen; Linitul; Vapores Pyt; Vitamina F99 Topica; ***Switz.:*** Demo pommade contre les refroidissements†; Der-