

been investigated, with variable results; some consider that vitamin A and oily fish in the diet could be beneficial in terms of visual preservation.<sup>1</sup> Transplantation of the retina is being investigated as a treatment for retinitis pigmentosa.<sup>1,5</sup> Devices to electrically stimulate the retina, optic nerve, or visual cortex are being developed.<sup>1</sup>

- Hartong DT, *et al.* Retinitis pigmentosa. *Lancet* 2006; **368**: 1795–1809.
- Berson EL, *et al.* A randomized trial of vitamin A and vitamin E supplementation for retinitis pigmentosa. *Arch Ophthalmol* 1993; **111**: 761–2.
- Yokota T, *et al.* Retinitis pigmentosa and ataxia caused by a mutation in the gene for the  $\alpha$ -tocopherol-transfer protein. *N Engl J Med* 1996; **335**: 1770–1.
- Sibulesky L, *et al.* Safety of <7500 RE (<25 000 IU) vitamin A daily in adults with retinitis pigmentosa. *Am J Clin Nutr* 1999; **69**: 656–63.
- Anonymous. Transplantation as a therapy for retinitis pigmentosa? *Br J Ophthalmol* 1997; **81**: 430.

**Retinopathy of prematurity.** There is some suggestion that vitamin A supplementation may reduce the incidence of retinopathy of prematurity (p.1994).

## Preparations

**BP 2008:** Paediatric Vitamins A, C and D Oral Drops;  
**BPC 1973:** Vitamins A and D Capsules;  
**USP 31:** Oleovitamin A and D; Oleovitamin A and D Capsules; Vitamin A Capsules.

### Proprietary Preparations (details are given in Part 3)

**Arg.:** A-Vitel; Adermicina A Mama; Amenite A†; Andrioderma; Arovit; Atomoderma A; Bagovit A; Cazmar; Domsedan; Fiosen-A†; Flavostat†; Masivol; Metabolite-A†; Midermos†; Rogademis†; Skinderm A; **Austral:** Ungvita; **Austria:** Arcavit A†; Avitol; **Oleovit A. Belg.:** Vitaminurine; **Braz.:** Arovit; Avitan†; Biocin†; Lacrigel A; Retinar; **Canad.:** Arovit; **Chile:** Avitana; Bagovit A; Microret; **Cz.:** A-Pulsin†; Axerophthol; **Denm.:** A-vitamin; **Fin.:** A-Vitamin†; **Fr.:** A 313; Arovit†; Avibon; **Ger.:** A-Mulsin†; A-Vicotrat†; Augenschutz NA; Oculotect; Oculotect sine; Solan-M; Vitadral; Vitafloid; Vitagel; **Hung.:** Oculotect; **Israel:** Avipur; **Ital.:** Arovit; Euvitol; Repervit†; Vit-A-N; **Malaysia:** Fairy ADE; **Mex.:** A Grin; A-Vicon†; Acon; Avinal-Ex†; Dermotin A; Microret; Microvita; Palmicaps†; Retigel-A; **Neth.:** Daggravit A Fortet†; **NZ:** Dermalife; Ungvita; **Philipp.:** Afaxin; Alici-A; Hypotears; **Pol.:** Aksoderm; Dermosavit; Dermovit A; Masc. Ochronna z Witamina A; Masc. Witaminowa Ochronna; **Port.:** A-Vite; Vitaminofalmi-na; **Rus.:** Vita-POS (Вита-ПОС); **S.Afr.:** Arovit; **Spain:** Auxina A Masiva; Biomolol A; Dif Vitamin A Masivo†; Rinocusi Vitaminico; Rinovite†; **Swed.:** Arovit; **Switz.:** Arovit†; Oculotect; **Turk.:** Avicap; Avigen; Carovigen; **UK:** Biovit-A; **USA:** Aquasol A; Palmilate-A; Pedi-Vit-A; Retinol-A; **Venez.:** Alfa-Mon; Retiva.

**Multi-ingredient Arg.:** A-D-C; A-Vitel E; AD Shock; Adermicina; Adermicina A; Atomoderma A-D; Atomoderma A-E; Aulo Gello Pie; Flav-Tex; Bagovit A Plus; Bagovit Avant Piel; Calusan Bebe; Celuvital†; Crema De Ordene; Derivoco†; Dermanova; Dermosan; Epitheliale A-Derma; Factor Vit AE; Glossderm†; Herbaccion Nutriderm†; Hipoglos; Hipoglos con Hidrocortisona; Masivol Urea; Medicreme; Nemege†; O-Biol; Palant†; Panoxi; Platsul A; Puraloe Nutritivo; Redoxon A; Revital; Salvicutan†; Sulfadiazina de Plata; Sulflat; Ulcevarin†; Vagicular; Vansame; Vansame Plus; Vitapelen†; Zooderma Cream; **Austral.:** Althaea Complex; Arthrorite; Bioglan Millelle A plus E; Bioglan Zn-A-C; Dermalife Plus; ER Cream†; Garlic, Horseradish, A & C Capsules†; Hydrastis Complex†; John Plunketts Protective Day Cream; Macro Natural Vitamin E Cream; Proyeast†; Sambucus Complex†; Trifolium Complex†; Verbasicum Complex†; **Austria:** A-E-Mulsin; Arcavit A/E; Coldistop; Gelacet; Gerogelat; Lemuval; Oleovit; Oleovit A; Oleovit A + D; Regenerin†; Rovigon; Ultrin; Vasovitol; **Belg.:** Neo-Cutigen†; Newderm†; Rovigon; Vita-Mefren†; **Braz.:** AD-Til; ADE 2 (Adeois); Adecal; Adederm; Adeforte; Aderogel D3; Babymed; Caridem†; Dermalisan; Dermoden; Epitezan; Gaduol†; Glossaliv; Hipoderme; Hipodermon; Hipodex; Hipoglos; Licovit; Multiderme; Pronenon; Regencel; Regenom; Sensibaby; Solemil†; Suavederm; Vitadesan; **Canad.:** A & D; A & D Ointment†; Antiseptic Skin Cream†; Lubriderm Advanced Moisture†; Nutrol A D; **Chile:** Brexon†; Dermalglos; Dermalglos Plus†; Droxel; Microret K; Nenegloss; Panthoderma-A; PEDIADERM†; Platsul A; Pomada Vitaminica; Povin; Rovigon; Sanoderm; **Cz.:** A-E-Mulsin†; Coldastop; Hypotears; Infadolan; **Fin.:** A-Vita; Aesol; Oftan A-Pant; Wicarba; Wicnevit; **Fr.:** Alpha 5 DS†; Cirkan a la Prednicinolone; Pommade Lelong†; Rovigon†; Seborheane; Solacy; **Ger.:** A + E Thilo†; A-E-Mulsin†; Coldastop; duraultra; Gelacet N†; Hewekzem novo N; Kwim†; Oculotect; Regepithel; Remeder†; Rovigon G†; Salus Augenschutz-Kapseln NA†; Tears Again; Unguentacid; Vita-POS; **Gr.:** Aquasol A+D; Aquasol A†; Avegon; Eviol-A; Novaquasol-A; **Hong Kong:** Aderma Epitheliale†; Hypotears†; Regepithel†; **Hung.:** Alksebör; Caldeat†; Coldastop; Neogranormon; Vita-Merfen†; **India:** Medithane; Ossivite; Sclerobion; Sharkomalt; Sharkovit; **Indon.:** Oculotect; Scott's E Vita; Visivit; Vita-Vision; **Israel:** Aquitol†; Aronal Forte; Baby A + D; Neocutan Silver; Oleovit A + D †; Vita-Merfen NF; Vitamidne A and D; **Ital.:** AD Pabym; Adisterolo; Babysteril; Derman-Oil; Dermana Crema; Dermana Pasta; Dicalcium†; Evitec; Granoleina†; Midium; Neocuticals Spot Treatment; Provitamin A-E; Retinovit; Rinopanteina; Rovigon; Tocalfa; **Mex.:** Adekals; Adekon; Adekon C; Adeloren†; Adibal; Aquasol AD; Capent; Hipoglos; Hipoglos Cremoss; Kamlioderm; Microa; Microret K Nutrem; Quinoret; Sutin†; Vidamid; Vitalorange; **Neth.:** Daggravit A-E Forte†; Hali-tran; **Philipp.:** Remeder†; Rovigon; Vandol; **Pol.:** Alantavit; Capivit A + E; Oculotect; Tokovit A + E; Tranvit; **Port.:** Bacitracina Zimaia; Dermabut; Esclerobion; Rovigon; Synchrovit; **S.Afr.:** Vandolf; **Spain:** Adiod; Anti-hemorroidal†; Auxina A + E; Biomolol A D; Calcio 20 Complex; Cicatral; Dermo Halibut; Epitelizante; Evitex A E Fuerte; Gramoce A; Grietalgen; Grietalgen Hidrocort†; Halibut; Halibut Hidrocortisona; Hubergrip†; Lacerdermol; Lacerdermol Complex; Mastiol; Mitosy; Vicomin A C; Vitaber A E; Wobenzimal†; **Swed.:** AD-vitamin; **Switz.:** Alphastrin; Antikeloides Creme; Carbamide Creme; Coldistop; Gelacet†; Leniderm†; Malvedrin; Oravil; Ricovitan†; Rovigon; Sanhelios Capsules a la vitamine A†; Unatol; Unguentolan; Vita-Hexin; Vita-Merfen; **Turk.:** Balya; **UK:** S.H.P.; Se-Power; **USA:** A and D Medicated; Aloe Grande; Cloacream; Diaper Guard; Lazercreme; Lobana Derm-Aide; Lobana Peri-Garde; Paladin; Phicon; **Venez.:** A-D-Vit; Adaderm; Ademina; Adenar; Dicalico†; Hipoglos†; Vandol; Vitenol†.

## Vitamin B Substances

Vitamina B, grupo de la.

The B vitamin group includes the B<sub>1</sub> substances (thiamine and its derivatives), B<sub>2</sub> (riboflavin), B<sub>6</sub> (pyridoxine and derivatives), and B<sub>12</sub> (the cobalamins). In addition, nicotinic acid and its derivatives (p.1957) and folic acid (p.1940) are held to be part of the group, as is pantothenic acid (p.1959), but these latter substances are not generally referred to by their traditional B nomenclature.

## Preparations

### Proprietary Preparations (details are given in Part 3)

**Philipp.:** Vaneular.

**Multi-ingredient: Braz.:** Plex B; Xantina B12†; Xantion B12; **India:** El-fem†; Hycybc; JP Tone; Livogent†; Lupizyme; Terramycin SF; Toniazol†; Vitexid; **Indon.:** Gunabion; Lesifit; Tonikum; **Malaysia:** Hepavite; Time Release Nutrition Mega B + C Complex†; **Philipp.:** IBC; **Singapore:** Hepavite.

Used as an adjunct in: **Philipp.:** Trisofort.

## Vitamin B<sub>1</sub> Substances

Vitamina B<sub>1</sub>.

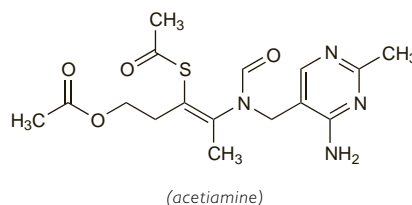
### Acetiamine Hydrochloride (rINN)

Acetiamine Hydrochloride; Acetiamine, Chlorhydrate d; Acetiamini Hydrochloridum; Diacethiamine Hydrochloride; Hydrocloruro de acetiamina. N-(5-Acetoxy-3-acetylthiopent-2-en-2-yl)-N-(4-amino-2-methylpyrimidin-5-ylmethyl)formamide hydrochloride monohydrate.

Ацетиамин Гидрохлорид

C<sub>16</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>S.HCl.H<sub>2</sub>O = 420.9.

CAS — 299-89-8 (acetiamine).



### Benfotiamine (rINN)

Benfotiamina; Benfotiaminum; S-Benzoylthiamine O-Monophosphate. N-(4-Amino-2-methylpyrimidin-5-ylmethyl)-N-(2-benzoylthio-4-dihydroxyphosphinyloxy-1-methylbut-1-enyl)formamide.

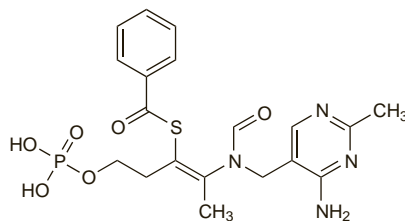
Бенфотиамин

C<sub>19</sub>H<sub>23</sub>N<sub>4</sub>O<sub>6</sub>PS = 466.4.

CAS — 22457-89-2.

ATC — A11DA03.

ATC Vet — QA11DA03.



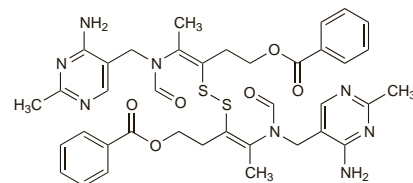
### Bisbentiamine (rINN)

O-Benzoylthiamine Disulphide; Bisbentiamina; Bisbentiaminum. NN'-[Dithiobis[2-(2-benzoyloxyethyl)-1-methylvinylene]]bis[N-(4-amino-2-methylpyrimidin-5-ylmethyl)formamide].

Бисбенйтиамин

C<sub>38</sub>H<sub>42</sub>N<sub>8</sub>O<sub>6</sub>S<sub>2</sub> = 770.9.

CAS — 2667-89-2.



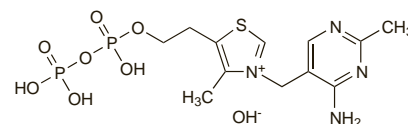
### Cocarboxylase (BAN, rINN)

Cocarboxilasa; Co-carboxylase; Cocarboxylasum; Diphosphothiamine; Pyruvodehidrase; Thiamine Pyrophosphate. 3-(4-Amino-2-methylpyrimidin-5-ylmethyl)-5-[2-[[dihydroxyphosphinyloxy-(hydroxy)phosphinyloxy]ethyl]-4-methylthiazolium hydroxide.

Кокарбоксилаза

C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>8</sub>P<sub>2</sub>S (hydroxide form) = 442.3.

CAS — 154-87-0 (cocarboxylase chloride).



**Pharmacopoeias.** Pol. includes the chloride.

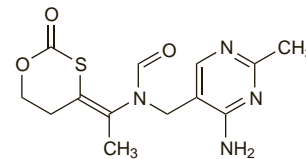
### Cycotiamine (rINN)

CCT; Cicotiamina; Cyclocarbothiamine; Cycotiaminum. N-(4-Amino-2-methylpyrimidin-5-ylmethyl)-N-[1-(2-oxo-1,3-oxathian-4-ylidene)ethyl]formamide.

Цикотиамин

C<sub>13</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>S = 308.4.

CAS — 6092-18-8.



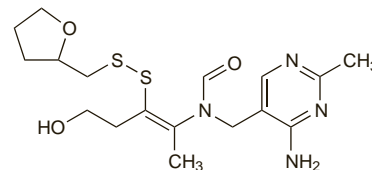
### Fursultiamine (rINN)

Fursultiamina; Fursultiaminum; Thiamine Tetrahydrofurfuryl Disulphide; TTFD. N-(4-Amino-2-methylpyrimidin-5-ylmethyl)-N-[4-hydroxy-1-methyl-2-(tetrahydrofurfuryldithio)but-1-enyl]formamide.

Фурсультиамин

C<sub>17</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>S<sub>2</sub> = 398.5.

CAS — 804-30-8.



### Octotiamine (rINN)

Octotiamina; Octotiaminum; Oktotiamiini; Oktotiamin; TATD; Thioctothiamine. N-[2-(3-Acetylthio-7-methoxycarbonylheptyldithio)-4-hydroxy-1-methylbut-1-enyl]-N-(4-amino-2-methylpyrimidin-5-ylmethyl)formamide.

Октотиамин

C<sub>23</sub>H<sub>36</sub>N<sub>4</sub>O<sub>5</sub>S<sub>3</sub> = 544.8.

CAS — 137-86-0.

