

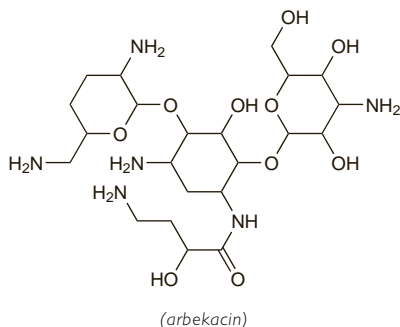
Arbekacin Sulfate (*rINNM*)

ABK (arbekacin); AHB-DBK (arbekacin); Arbekacin Sulphate; Arbekacine; Sulfate d'; Arbekacini Sulfas; HABA-Dibekacin (arbekacin); Sulfato de arbekacina. *O*-3-Amino-3-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-*O*-[2,6-diamino-2,3,4,6-tetra-deoxy- α -D-erythro-hexopyranosyl-(1 \rightarrow 6)]-N'-[(2*S*)-4-amino-2-hydroxybutyryl]-2-deoxy-L-streptomine sulphate.

Арбекацина Сульфат

$C_{22}H_{44}N_6O_{10} \cdot xH_2SO_4$

CAS — 51025-85-5 (arbekacin).

**Pharmacopoeias.** In *Jpn*.**Profile**

Arbekacin is an aminoglycoside derived from dibekacin and has general properties similar to those of gentamicin (p.282). It has been used as the sulfate in the treatment of serious infections due to methicillin-resistant *Staphylococcus aureus*.

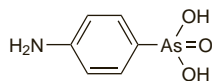
Arsanilic Acid (*BAN, rINN*)

Acide Arsanilique; Ácido arsanílico; Acidum Arsanilicum; Aminarsonic Acid; AS-101. *p*-Aminobenzearsonic acid; 4-Aminophenylarsonic acid.

Арсаниловая Кислота

$C_6H_8AsNO_3 = 217.1$.

CAS — 98-50-0.



NOTE. The code AS-101 has also been used for an immunomodulator investigated as an antineoplastic and antiviral.

Pharmacopoeias. In *US* for veterinary use only.

USP 31 (Arsanilic Acid). A white to off-white crystalline powder. Soluble in hot water, in amyl alcohol, and in solutions of alkali carbonates; slightly soluble in cold water, in alcohol, and in acetic acid; insoluble in acetone, in chloroform, in ether, in benzene, and in dilute mineral acids; sparingly soluble in concentrated mineral acids.

Sodium Arsanilate (*BANM, rINNM*)

Arsanilate de Sodium; Arsanilato sódico; Natrii Arsanilas; Sodium Aminarsonate; Sodium Anilarsonate. Sodium 4-aminophenylarsonate.

Натрий Арсанилат

$C_6H_7AsNNaO_3 = 239.0$.

CAS — 127-85-5.

Pharmacopoeias. *Fr.* includes the anhydrous substance and the trihydrate.

Profile

Arsanilic acid and sodium arsanilate are used in veterinary medicine for the prophylaxis and treatment of enteric infections in pigs and also as growth-promoting agents.

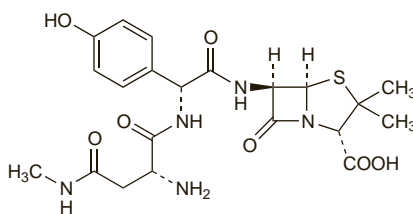
Aspoxicillin (*rINN*)

Aspoxicilina; Aspoxicilline; Aspoxicillinum; TA-058. (2*S*,5*R*,6*R*)-6-[(2*R*)-2-[(2*R*)-2-Amino-3-(methylcarbamoyl)propionamido]-2-(*p*-hydroxyphenyl)acetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid.

Аспоксициллин

$C_{21}H_{27}N_5O_7S = 493.5$.

CAS — 63358-49-6.



Pharmacopoeias. *Jpn* includes the trihydrate.

Profile

Aspoxicillin is a ureidopenicillin that has been given intravenously in the treatment of susceptible infections.

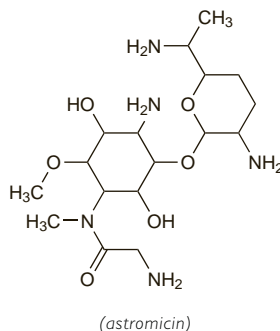
Astromicin Sulfate (*USAN, piNNM*)

Abbott-44747; Astromicin Sulphate; Astromicine, Sulfate d'; Astromicini Sulfas; Fortimicin A Sulphate; KW-1070; Sulfato de astromicina. 4-Amino-1-(2-amino-*N*-methylacetamido)-1,4-dideoxy-3-*O*-(2,6-diamino-2,3,4,6,7-pentadeoxy- β -L-lyxo-heptopyranosyl)-6-*O*-methyl-L-chiro-inositol sulphate.

Астромицина Сульфат

$C_{17}H_{35}N_5O_6 \cdot 2H_2SO_4 = 601.6$.

CAS — 55779-06-1 (astromicin); 72275-67-3 (astromicin sulfate); 66768-12-5 (xH_2SO_4).

**Pharmacopoeias.** In *Jpn*.**Profile**

Astromicin is an aminoglycoside antibiotic produced by *Microspora* spp. and with actions and uses similar to those of gentamicin (p.282). Astromicin sulfate has been given by intramuscular injection or intravenous infusion. Dosage should be adjusted based on serum-astromicin concentration monitoring.

Preparations

Proprietary Preparations (details are given in Part 3)

Jpn: Fortimicin.

Avilamycin (*BAN, USAN, rINN*)

Avilamicina; Avilamicine; Avilamycinum; LY-048740 (avilamycin or avilamycin A).

Авиламицин

$C_{61}H_{88}Cl_2O_{32}$ (avilamycin A) = 1404.2.

CAS — 11051-71-1 (avilamycin); 69787-79-7 (avilamycin A); 69787-80-0 (avilamycin C).

**Profile**

Avilamycin is an antibacterial that has been used in veterinary medicine as a growth promoter.

Avoparcin (*BAN, USAN, rINN*)

Avoparcina; Avoparcine; Avoparcinum; Compound 254.

Авопарцин

CAS — 37332-99-3.

Profile

Avoparcin is a glycopeptide antibiotic usually produced by *Amycolatopsis coloradensis* (*Streptomyces candidus*). It has been incorporated into animal feedstuffs to promote growth.

There is evidence of cross-resistance between avoparcin and vancomycin.¹ Suggestions that vancomycin-resistant organisms could enter the human population from the food chain as a result of the use of avoparcin as a growth promoter in animals^{2,3} were disputed by the manufacturers of avoparcin.^{4,5} After a ban in the EU on the use of avoparcin as a growth promoter in animals there has been some evidence⁶ of a decrease in the occurrence of vancomycin-resistant enterococci in poultry meat.

1. Klare I, *et al.* vanA-mediated high-level glycopeptide resistance in *Enterococcus faecium* from animal husbandry. *FEMS Microbiol Lett* 1995; **125**: 165–72.
2. Howarth F, Poulter D. Vancomycin resistance: time to ban avoparcin? *Lancet* 1996; **347**: 1047.
3. Wise R. Avoparcin and animal feedstuff. *Lancet* 1996; **347**: 1835.
4. Mudd A. Vancomycin resistance and avoparcin. *Lancet* 1996; **347**: 1412.
5. Mudd AJ. Is it time to ban all antibiotics as animal growth-promoting agents? *Lancet* 1996; **348**: 1454–5.
6. Pantosti A, *et al.* Decrease of vancomycin-resistant enterococci in poultry meat after avoparcin ban. *Lancet* 1999; **354**: 741–2.

Azidamfenicol (*BAN, rINN*)

Azidamfénicol; Azidamfénicolum; Azidamphenicol; Azidanfenicol; Azidoamphenicol; Bayer-52910. 2-Azido-*N*-[(α R, β R)- β -hydroxy- α -hydroxymethyl-4-nitrophenethyl]acetamide.

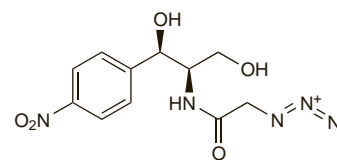
Азидамфеникол

$C_{11}H_{13}N_5O_5 = 295.3$.

CAS — 13838-08-9.

ATC — S01AA25.

ATC Vet — QJ01AA25.

**Profile**

Azidamfenicol is an antibiotic that is related structurally to chloramphenicol (p.239). It is used as 1% eye drops or eye ointment in the treatment of bacterial eye infections.

Preparations

Proprietary Preparations (details are given in Part 3)

Cz.: Ophthalmo-Azaphenicol†; **Ger.:** Berlicetin; Posifenicol; Thilocanfol; **Gr.:** Thilocof.

Azidocillin Sodium (*BANM, rINNM*)

Azidobenzylpenicillin Sodium; Azidocilina sódica; Azidocilline Sodique; Natrii Azidocillinum. Sodium (6*R*)-6-(*D*-2-azido-2-phenylacetamido)penicillanate.

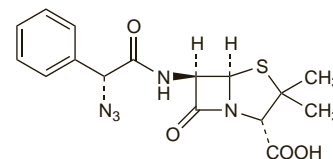
Натрий Азидоциллин

$C_{16}H_{16}N_5NaO_4S = 397.4$.

CAS — 17243-38-8 (azidocillin); 35334-12-4 (azidocillin sodium).

ATC — J01CE04.

ATC Vet — QJ01CE04.



(azidocillin)