

Title (en)

Polycyclic ether antibiotics, process for producing them and animal feed compositions containing them.

Title (de)

Polycyclische Äther-Antibiotika, Verfahren zu ihrer Herstellung und diese enthaltende Tierfutterstoffe.

Title (fr)

Antibiotiques du type éthers polycycliques, leur procédé de préparation et compositions alimentaires pour animaux les contenant.

Publication

**EP 0000258 A1 19790110 (EN)**

Application

**EP 78300057 A 19780620**

Priority

US 80962077 A 19770624

Abstract (en)

Antibiotics 47,433 and 47,434 are produced by culture of Actinomycete micro-organism ATCC 31286, and are useful for controlling coccidiosis in poultry by administration in the diet, and for improving feed utilisation in ruminants and monogastric animals. <??>Antibiotic 47,433 as crystalline free acid is soluble in methanol, acetone, chloroform, methylisobutyl ketone, ethyl acetate and insoluble in water; m.p. 89-99 DEG C; ( alpha )D = +16 DEG (C = 1.0, MeOH); average composition by weight: 64.92% carbon, 9.73% hydrogen and 25.35% oxygen (by difference); infrared absorption (KBr pellets, in microns):2.87, 3.42, 5.77, 6.85, 7.30, 8.05, 8.60, 9.20, 10.15, 10.53 and 11.45; following crystalline salts are described: -Na(m.p. 226-32 DEG ; ( alpha )D = -0.2 DEG (C = 1.0, MeOH), -K (m.p. 202.-5 DEG ; ( alpha )D = -3.2 (C = 1.0, MeOH), -Ag (m.p. 180-2 DEG ; ( alpha )D = +3.6 DEG (C = 1.0, MeOH). Antibiotic 47,434 as crystalline sodium salt is soluble in chloroform, ethyl acetate, methylisobutyl ketone and insoluble in water; m.p. 230-238 DEG C, ( alpha )D = -1.3 DEG (C = 1.0, MeOH); infra-red absorption (KBr pellets, in microns): 3.40, 6.40, 6.85, 7.14, 7.27, 7.75, 8.05, 8.40, 8.62, 9.10, 9.40, 10.07, 10.50, 11.49, 12.65 and 13.25.

IPC 1-7

**C12D 9/14**; **A61K 35/66**; **C07G 11/00**

IPC 8 full level

**A23K 20/195** (2016.01); **A61K 31/325** (2006.01); **A61K 31/35** (2006.01); **C07D 493/10** (2006.01); **A61K 35/74** (2006.01); **A61P 31/00** (2006.01); **A61P 33/02** (2006.01); **C07G 11/00** (2006.01); **C12P 1/06** (2006.01); **C12P 17/18** (2006.01); **C12R 1/03** (2006.01)

CPC (source: EP US)

**A61P 31/00** (2018.01 - EP); **A61P 33/02** (2018.01 - EP); **C07G 11/00** (2013.01 - EP US); **Y10S 435/826** (2013.01 - EP US)

Citation (search report)

[A] FR 2303539 A1 19761008 - SANDOZ SA [CH]

Designated contracting state (EPC)

BE DE FR GB LU NL

DOCDB simple family (publication)

**EP 0000258 A1 19790110**; **EP 0000258 B1 19810311**; CA 1131145 A 19820907; DE 2860512 D1 19810409; DK 283578 A 19781225; IE 47005 B1 19831130; IE 781254 L 19781224; IT 1097275 B 19850831; IT 7824912 A0 19780623; JP S5412302 A 19790130; JP S57154187 A 19820922; JP S57154188 A 19820922; JP S5735915 B2 19820731; US 4148882 A 19790410

DOCDB simple family (application)

**EP 78300057 A 19780620**; CA 306039 A 19780622; DE 2860512 T 19780620; DK 283578 A 19780623; IE 125478 A 19780623; IT 2491278 A 19780623; JP 2672282 A 19820220; JP 2672382 A 19820220; JP 7634878 A 19780623; US 80962077 A 19770624