

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; (α)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 ; (α)D = -0.2 DEG (C = 1.0, MeOH), -K (m.p. 202.-5 DEG ; (α)D = -3.2 (C = 1.0, MeOH), -Ag (m.p. 180-2 DEG ; (α)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, (α)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.

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

IPC 8 full level

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