

NFA 305

Deck 75 m61

SEP 21 1998

Stamp Date:

**FREEDOM OF INFORMATION SUMMARY**

**I. GENERAL INFORMATION:**

**ANADA Number:** 200-261

**ANADA/Generic Sponsor:**

Alpharma Inc.  
One Executive Drive  
Fort Lee, NJ 07024

**Established Name:** Chlortetracycline  
Salinomycin sodium

**Trade/Proprietary Name:** ChlorMax™  
Bio-Cox®

**Dosage Form:** Type A Medicated Articles

**Note:** This ANADA provides for the combined use of two approved Type A medicated articles [ChlorMax™ (chlortetracycline) and Bio-Cox® (salinomycin sodium)] in Type C medicated feeds, rather than a premix incorporating both of these compounds.

**How Supplied:** Chlortetracycline: 5, 10 or 50-lb bags  
Salinomycin sodium: 50-lb bags

**How Dispensed:** OTC

**Label Claim of Amount of Active Ingredient(s):** Chlortetracycline-50, 65, and 70 g/lb in Type A Medicated Articles  
Salinomycin-30 and 60 g/lb in Type A Medicated Articles

**Route of Administration:** These drugs are administered orally by adding the Type A Medicated Articles to complete broiler feed (Type C medicated feed)

**Recommended Dosage:** Chlortetracycline, 500 grams per ton (.055%)  
Salinomycin, 40 to 60 grams per ton (.0044-.0066%)

**Species:** Broiler Chickens

**Indications for use:** For the prevention of coccidiosis in broiler chickens caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. maxima*, *E. brunetti*, and *E. mivati*, and as an aid in the reduction of mortality due to *E. coli* infections susceptible to such treatments.

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Equivalent Product:	ChlorMax™ Chlortetracycline NADA 46-699 Alpharma Inc.
Pioneer Product/ Listed Product:	Aureomycin® Chlortetracycline NADA 48-761 Roche Vitamins, Inc.
	Bio-Cox® Salinomycin sodium NADA 128-686 Roche Vitamins, Inc.
	Aureomycin + Bio-Cox Chlortetracycline/Salinomycin NADA 140-859 Roche Vitamins, Inc.

## II. EFFECTIVENESS AND TARGET ANIMAL SAFETY:

ChlorMax and Aureomycin were both found to comply with the results of NAS/NRC and DESI evaluation for effectiveness as published in the Federal Register (61 FR 35949-35958; July 9, 1996). These products approved under the DESI process were found to be equivalent at the codified level 21 CFR § 558.128(d)(1)(viii) of 500 g/ton for chickens (61 FR 35949-35958; July 9, 1996).

The Center's fourth policy letter dated November 2, 1989, as published in the Federal Register on January 30, 1990 (55 FR 3107), states that the approval of a new generic Type A medicated article entitles the sponsor to approval of all the feed combinations for which the pioneer is approved. Bioequivalence and tissue residue studies are not required for approval of the feed use combinations.

Chlortetracycline (ChlorMax-Alpharma) is codified under 21 CFR § 558.128(a)(3). Chlortetracycline (Aureomycin®-Roche) is codified under 21 CFR § 558.128(a)(1). Salinomycin sodium is codified under 21 CFR § 558.550. The combination is codified under 21 CFR § 558.550(d)(1)(xvi).

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### III. HUMAN SAFETY:

#### a. Tolerances and Safe Concentration of Residues

The tolerances established for the pioneer product apply to the generic product.

Tolerances for the sum of residues of tetracycline, including chlortetracycline in tissues of chickens, are as follows: (a) 2 parts per million (ppm) in muscle; (b) 6 ppm in liver; (c) 12 ppm in fat(21 CFR § 556.150).

Under NADA 128-686 a tolerance for salinomycin was not required because residue levels in all three broiler tissues (muscle, liver, and skin/fat) were significantly below the established safe concentration.

#### b. Withdrawal Time

Based on the information in 21 CFR § 558.550(d)(1)(xvi), a 24-hour withdrawal time is required for the combination of chlortetracycline and salinomycin.

#### c. Regulatory Methods for Residues

The regulatory analytical method for the determination of residues of chlortetracycline is a microbiological test using *Bacillus cereus* var. *mycoides* (ATCC 11778). The method is found in Antibiotic Residues in Milk, Dairy Products, and Animal Tissues: Methods, Reports and Protocols, Revised October 1968, Reprinted December 1974, National Center for Antibiotic and Insulin Analysis, FDA, Washington, DC 20204.

Under NADA 128-686 a regulatory method for salinomycin was not required because residue levels in all three broiler tissues (muscle, liver and skin/fat) were significantly below the established safe concentration for total residues.

### IV. AGENCY CONCLUSIONS:

This ANADA submitted under section 512(b) of the Federal Food, Drug and Cosmetic Act satisfies the requirements of section 512 (n) of the act and demonstrates that the combination of chlortetracycline and salinomycin, when used under its proposed conditions of use, is safe and effective for its labeled indications.

Attached labeling: Type C medicated Feed (Blue Bird) - Generic

Lot No. \_\_\_\_\_

**NET WEIGHT ON BAG OR BULK**

**BLUE BIRD SALINOMYCIN/CTC  
TYPE C BROILER FEED  
MEDICATED**

For prevention of coccidiosis caused by *Eimeria tenella*, *E. necatrix*, *E. acervulina*, *E. maxima*, *E. brunetti*, and *E. mivati*, and as an aid in the reduction of mortality due to *E. coli* infections susceptible to such treatment in broiler chickens.

**ACTIVE DRUG INGREDIENTS**

Salinomycin sodium..... 40 to 60 g/ton  
Chlortetracycline (as HCl)..... 500 g/ton

**GUARANTEED ANALYSIS**

Crude Protein, not less than ..... %  
Crude Fat, not less than ..... %  
Crude Fiber, not more than ..... %

**INGREDIENTS**

Each ingredient must be specifically named (unless stated as such in the guaranteed analysis listing) in accordance with the names and definitions listed in Title 21 CFR 501.110.

**DIRECTIONS FOR USE**

For broiler chickens only; not to be fed for more than five days; not approved for use with pellet binders.

**WARNING:**

Withdraw 24 hours before slaughter. Do not feed to laying chickens. May be fatal if accidentally fed to adult turkeys or to horses. When handling or mixing BIO-COX® premixes, use protective clothing, impervious gloves, eye protection, and an approved dust respirator. Operators should wash thoroughly with soap and water after handling medicated feeds and premixes.

BLUE BIRD FEED MILL  
Any Town, USA 12345