

Chemical Anticoccidials, resistance and residues – Possible natural alternatives

Growell India talks about its efforts against the rise of Coccidiosis in Poultry

PUNE, MAHARASHTRA, INDIA, August 15, 2016 /EINPresswire.com/ -- Resistance to the Anticoccidial and its ill effects in human food chain remain the two major challenges. It is well documented that resistance will develop to any anticoccidial that is used on a continuous basis. The ideal anticoccidial program should compensate for resistance that may be present to existing products and preserve the efficacy of new products. Shuttle programs do this by permitting use of the correct drug for each need. Rotation programs achieve this by eliminating resistance to a particular family of drugs by use of drugs with a totally different activity-mode of action.

Ill effects of ionophore chemicals (Anticoccidials) are also known to create disease resistance to humans. The movement towards antibiotic-free production began in the European Union. The European community banned the use of feed-grade antibiotics, including bacitracin and virginiamycin in 1999. The USDA has extended the ban to include ionophores in order for companies to label their products grown without the use of antibiotics. Smaller U.S. producers serving niche or specialty markets were the first to tap into this expanding market, using the value-added benefits of their natural chicken to lure health-conscious consumers who are willing to pay a premium for drug-free birds

To help alleviate some of the problems that occur with the removal of antibiotics, poultry companies are putting more emphasis on probiotic/competitive exclusion products, water acidifiers, and litter treatments as well as natural products.

Probiotics and/or competitive exclusion (CE) products are terms that describe the protective effect of the natural or native bacterial flora of the intestine in preventing or limiting the colonization of bacterial pathogens. The natural gut microflora of animals function to break down ingested food, produce some vitamins, and most of all, to provide a natural barrier to pathogenic bacteria.

Numerous efforts to date have been implemented in the control of avian coccidiosis caused by the Eimeriaparasite. Since the appearance of anticoccidial chemical compounds, the search for new alternatives continues. Today, no product is available to cope with the disease; however, the number of products commercially available is constantly increasing. In this review, we focus on natural products and their anticoccidial activity. This group comprises fatty acids, antioxidants, fungal and herbal extracts, and immune response modulators with proven anticoccidial activity, many of which exist as dietary supplements. Additionally, we offer an overview of the poultry industry and the economic cost of coccidiosis as well as the classical strategies used to control the disease.

It is in this context that [Coxynil](#), a [herbal anticoccidial](#) from [Growell India](#) (a FAMI QS and ISO 9001:2008 Certified company) www.growell.com offers a unique advantage to the Poultry and animal feed industry. Coxynil is the only phytogenic anticoccidial on the market that acts at each and every stage of the life cycle. This makes sure the protozoa are eliminated at each stage, thereby ridding the animal of sub clinical infections – which no other anticoccidial on the market can accomplish. Thus, Coxynil manages to not only act as an immunity builder but also a growth promoter. Coxynil, being

made out natural ingredients, does not develop any resistance and is also safe for the entire food chain.

On question about the unique mode of action of Coxynil, Mr. P Goel, the CEO replied “Research conducted showed that Coxynil eliminates coccidia by stimulating the production of cytotoxic T-cells which then attack the epithelial cells infected with micro and macrogametes to prevent the sporulation of oocysts”, with Coxynil supplementation, it is common to save 1 to 2 days of feed of broilers, as they achieve the target weights earlier, thus significantly making Feed conversion ratio (FCR) better. Coxynil has been found useful across all species of animal production, specially in Dairy and Beef Cattle, Poultry, Calves, Sheep and Goat & Pigs.

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