Curcumol

pure turmeric oil fortified with curcuminoids

AVON animal health

INNOVISTA Feeding Solutions

www.innovistaconsulting.com

INTRODUCTION

For many decades the practice of dietary use of Antibiotics as a growth promoter in commercial poultry production has been followed. Opportunistic pathogens present in the gut/intestinal tract tend to reduce the growth rate of poultry. Antibiotics, also commonly referred to as Antimicrobial Growth Promoters (AGP) act directly on the pathogenic intestinal bacteria. AGPs can get accumulated in the bird's tissues which will ultimately pass on to humans through the food chain resulting in breakdown of the immune system (Bacterial resistance).

The hottest and latest concept in non-antibiotic growth promotion! A novel concept to use turmeric oil in feed!!!

Non-conventional feed additives for growth promotion is the buzzword in the industry today! Acidifiers, essential oils, pre and probiotics and herbal extracts are all being tried in place of antibiotics with relative success. Here's a novel concept using CURCUMOL - turmeric oil fortified with curcuminoids, a product offer from AVON Animal Health .

WHAT IS CURCUMOL?

Curcumol is turmeric oil fortified with Curcuminoids. Turmeric (Curcuma longa) is a rhizome herb belonging to the Zingiberaceae (Ginger) family. The active substances in the Turmeric oil are Curcuminoids, Aromatic turmerones and alpha and beta turmerones and curlone. Curcuminoids have a wide spectrum of biological activities including antioxidant, antibacterial, antifungal, antiprotozoal, antiviral, anticoccidial and antiinflammatory properties. The oil part also exhibits antibacterial, antifungal and anti-inflammatory properties.

EVIDENCE BASED DATA ON THE POTENTIAL OF TURMERIC OIL AND ITS COMPONENTS THEREOF ON POULTRY NUTRITION:

Growth performance of Broilers: Supplementation of Turmeric oil in diet resulted in greater body weight gain and lower feed conversion ratio in 42 day in broilers. Studies also show that turmeric has the ability to stimulate the digestive system, increase the secretion of intestinal lipases, amylase, trypsin and Chymotrypsin enzymes hence boosting digestibility. Yarru et al (2009) has reported positive effects of 5 g/Kg turmeric meal supplementation in birds exposed to aflatoxins. Lee et al(2009) noted that turmeric meal supplementation alleviated growth depression effect due to Eimeria infection.

Egg production and quality in Layers: There is much evidence to show that dietary supplementation with turmeric meal stimulated egg production of laying hens. Supplementation of layer diet with turmeric meal increased egg production, weight, mass and increased the yolk weight and yolk index. Studies also revealed that turmeric meal supplementation improved the site of calcium deposition in the uterus and increased shell weight and thickness.

Immuno-modulatory system: Response of Broiler chickens due to turmeric dietary supplementation on Immuno-modulatory system has been evaluated in some studies. Dietary supplementation of Turmeric ameliorated the harmful effect of Aflatoxin B1 on the body's immune system , showing the humoral immune stimulatory potential in poultry.

Carcass traits of Broilers: Dietary supplementation with turmeric will have beneficial effects on the carcass traits of broiler chickens as it contains beneficial phytochemicals like Curcumin, Ar-Turmerones and curlone. Dietary supplementation of curcumin meal reduced the abdominal fat, subcutaneous fat thickness and liver fatness of male Wanjiang Yellow chickens.

Proximate analysis of CURCUMOL

NUTRITIONAL ANALYSIS	CURCUMOL
Carbohydrates	Not detected (Detection limit 0.1%)
Energy	8987.4 Kcal/Kg
Protein	Not detected (Detection limit 0.1%)
Fat	99.86%

COMPOSITION

COMPOSITION OF FATTY ACIDS	CURCUMOL
Palmitic acid	18.2
Palmitoleic acid	36.3
Stearic acid	3.9
Oleic acid	7.2
Cis-Vaccenic acid	7.8
Linoleic acid	20.3
Linolenic acid	6.3

Distribution of Turmerones : Ar – turmerones= 32.5% , Alpha – turmerones=15.6%, Beta- turmerones=17.1%

DOSAGE

SPECIES	DOSAGE
Poultry	250 - 750 ml
Bovine	250 - 500 ml
Fish	250 - 500 ml

With Curcumol

Without Curcumol

PACKING

25 Liters drum

Marketed by
AVON animal health
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