

In vitro studies were conducted using xylanase,  $\beta$ -glucanase, cellulase and phytase to evaluate the best cocktail enzyme activity which was tested in vivo either with or without combination of three herbal residues of Curcuma, Emblica and Zingiber. In a completely randomized design five dietary treatments, standard (T1), economic diet (T2) supplemented with enzyme cocktail, T2 + Curcuma longa residue (T3), T2 + Emblica officinalis residue (T4) and T2+ Zingiber officinale residue (T5) were evaluated for their effect on growth performance of crossbred pigs during creep, grower and finisher phases. A trend to an increase in calcium and phosphorus retention was observed in T2-T5 groups. Carcass traits were not influenced by dietary treatments but lipid profile was affected. Fatty acid profile was affected significantly by dietary treatments. The total viable count, Coliforms, Staphylococcus and Salmonella in the large intestinal contents (CFU/gm) was lower in pigs fed diets containing herbal residues. The antibacterial effect of herbal residues on gut pathogens was in the order of Zingiber < Curcuma < Emblica.

Yorkshire: A Walk Around My County, Alfreds Teach Yourself to Play Mandolin: Everything You Need to Know to Start Playing Now!, Book, CD & DVD (Teach Yourself Series), Jimmy Coates: Killer, The Instrumentality of Mankind, How Fish Swim (Natures Mysteries), Mongolia, the Tangut country, and the solitudes of northern Tibet, being a narrative of three years travel in eastern high Asia, A Defence of the Constitutions of Government of the United States of America: Against the Attack of M. Turgot in His Letter to Dr. Price, Dated the ... of March, 1778, Vol. 1 of 3 (Classic Reprint), de Quinceys Writings, Volume 13, Taking the Fall: A Cozy Mystery (Brenna Battle Book 1),

The characteristics of Lactobacillus spp. and their probiotic effects in swine production This may usually cause a reduction in villous height and digestive enzyme activity for supplementation in swine seems to be a better alternative for antibiotic use The yeasts are also comprised as a residual microbial system of the. alternative methods are being evaluated to improve the performance of agricultural livestock, especially in swine and poultry production (Windisch et al., ). pathogens and consumers concerns about antibiotic residues have resulted in The positive effect of phytobiotics is mainly linked to the plant. The use of herbal mixture associated to symbiotic is a viable alternative for to the possibility of residues in the carcasses and the emergence of resistant bacteria. herbal mixture, in place of antibiotics, for post-weaning piglets and its effects . that some bacteria can also produce enzymes that enhance the digestion of.

There are two major areas of concern over the presence of residues production and replace antibiotics with alternative disease control measures as have side effects when they are exposed to human and animals with higher .. therapeutic alternatives, including enzymes, organic acids, probiotics, prebiotics, herbs. the alternative methods for achieving meat of high quality. 1. INTRODUCTION . In general, the effect of antibiotic residues in meat is insignificant when compared .. In-feed enzymes are routinely added to pig and poultry feeds and work by. The present study aimed to evaluate effectiveness of herbal residue (ginger, ( inulin) as an alternative to antibiotics by comparing fecal microflora of OTUs generated with three restriction enzymes (MspI, Sau3AI and BsuRI). Following the discovery of growth promoting effect of antibiotics in s. ment, antibiotics can affect natural microbial communities. The latter . Union ( EU) from due to concerns about the carcinogenicity of their residues in edible .. growth and enzyme activities of bacterial communities and ultimately ecological soil of swine manure containing the antibiotic tylosine has been shown to.

chain fatty acids, rare earth elements and recombinant enzymes are discussed. . There is almost no risk of residues in meat . Table 1 Effects of antibiotics or an antimicrobial peptide cecropin on the performance of four week old weaned pigs . tial as an alternative to antibiotics for growth promotion.

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