



BETTER WAY TO START NATURAL GROWTH







The use of plant additives, the so-called phytobiotics, has been known to man since ancient times when herbs were used both in the prevention and treatment of pathogenic conditions in farm animals.

The use of antibiotics as growth promoters (AGP) in livestock has been banned since 2005, due to concerns about their residues in animal tissues and subsequent induction of bacterial resistance. Accordingly, phytobiotics are gaining importance as possible alternatives to antibiotic growth promoters because they are natural, readily available, non-toxic and residue-free.

The phytobiotics can expect to regulate digestive processes, support the secretion of digestive enzymes and bile, increase appetite, improve the absorption of nutrients and also detoxification in the body. Plant supplements also act more specifically, i.e. inhibit the growth of pathogenic microorganisms, regulate the gastro-intestinal microbiome, stimulate the immune, reproductive and endocrine systems, have antioxidant and antihelminthic properties, stimulate blood circulation, inhibit inflammation, promote epithelial regeneration of intestine and intestinal villi, and even improve the quality of eggs and meat. Most of the active antioxidants in plants are secondary metabolites belonging to the classes of isoprene, flavonoids and glucosinolates derivatives, and their properties could also be used to shape the characteristics of food of animal origin. In practice, many plant substances have been used successfully to improve egg laying, egg quality and meat quality.

Among the plant additives, the strongest antibacterial and antifungal properties are present in the extracts of thyme, echinacea, oregano, sage, garlic and cinnamon which are rich in polyphenols. The antimicrobial action of plant bioactive substances is based on the disintegration of pathogen cell membrane structures which cause the migration of valuable ions from the pathogen's cell to the external environment, thus reducing their virulence. Research by *Pasqua et al.* has shown that cinnamaldehyde can even destroy the structure of long-chain fatty acids in the cell membranes of E. coli bacteria. It has been suggested that the hydrophobicity of essential oils play a key role in promoting the penetration of the phospholipid layer of the mitochondrial and cellular membrane of bacteria, which result in leakage of critical cell components and ions leading to cell death of pathogens.

By keeping phytobiotics in mind, QUADRAGEN has launched a unique product  PROMOGen.  PROMOGen is formulated by use of ANBIOT (Accelerated Natural Bio Transformation) extraction technology that uses biodegradable solvents to extract all the bioactives present in the plants, and acts as a wholesome phytobiotic for swine and poultry.



COMPOSITION :
Each 100g contains

Cinnamon active extracts

pH balancer

Garlic active extracts

Ginger active extracts

Choline chloride

Mehandi active extracts



BENEFITS :

USAGE:
Poultry & Swine:
250-500g/ ton of feed
or as advised by the
Veterinarian/Nutritionist

- Specific antibacterial effect which prevents pathogen growth in the intestine
- Helps to achieve better body weight gain & FCR
- Better flock uniformity
- Improves immunity in chicks
- Stimulates feed intake and enhances digestive enzyme secretions
- Antibiotic-free Chicken & Eggs
- Broad Spectrum in action
- Thermostable



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