

AMPHIMINERAL-D₃


Liquid

A balanced combination of vitamin D₃, phosphorus and calcium in addition to other elements required for healthy bone development and guarding against skeletal and leg problems in broiler chicken and other farm animals and to improve the growth performance.

Product Description:

AMPHIMINERAL D₃ liquid is specially designed to supply all required elements for bone health and development. Vitamin D₃ (Cholecalciferol) is the characteristic component that is essential for utilization of all other ingredients. Vitamin D₃ helps maintaining the physical integrity of structural bone acting on skeleton cortical/trabecular bone. It also helps maintaining adequate mobile Ca pool for eggshell formation acting on medullary bone. Vitamin D₃ guards against osteoporosis and fractures. It also guards against common keel bone fractures during the laying period. AMPHIMINERAL D₃ liquid provides the bioactive form of vitamin D₃ (1,25(OH)₂D₃) which is a key player in Ca-homeostasis. It is needed to increase Ca absorption from the intestinal tract and Ca mobilization from bone during eggshell formation and to restore it after eggshell formation is finished. Decreased levels of 1,25(OH)₂D₃ may contribute to growth plate abnormalities such as tibial dyschondroplasia and rickets. As the basis is in the vitamin D₃ metabolism, it is a better to increase 1,25(OH)₂D₃ levels rather than dietary Ca to improve Ca homeostasis in ageing laying hens. AMPHIMINERAL D₃ liquid is an essential source of calcium and phosphorus for broilers and young chicks. The absolute amounts of calcium and phosphorus are important for optimal growth and bone ash. AMPHIMINERAL D₃ liquid provides "trace minerals" including manganese (Mn), copper (Cu), and zinc (Zn) essential to avoid deficiencies that cause disturbances in metabolic processes such as loss of appetite, lower performance, impaired immune system, and reproductive disorders. Trace minerals influence bone development, feathering, growth, and appetite.

AMPHIMINERAL D₃ liquid provides optimal magnesium concentration for growing chicks. Mg is a key dietary element and it is reported to be indispensable for animal growth and survival. Mg deficiency in growing poultry is characterized by poor growth and feathering, decreased muscle tone, squatting, convulsive attacks, coma, and death; in laying hens, symptoms include reduced egg production, decreased feed consumption, nervous tremors, and seizures. Its actions are closely linked to calcium and phosphorus,



making the achievement of the right proportion of these elements in diets an important issue in poultry nutrition.

Benefits:

AMPHIMINERAL D₃ liquid may be essential for healthy bone development and to guard against nutritional skeletal disorders as rickets, osteomalacia and caged layer fatigue

AMPHIMINERAL D₃ liquid may be of value to avoid leg problems in broiler chicken.

AMPHIMINERAL D₃ liquid can be helpful to guard against osteoporosis and fractures in laying hens. It is helpful improve vascular invasion of bones in chickens and therefore, guard against tibial dyschondroplasia and rickets. It also may be used to prevent keel bone damage (KBD) in laying hens that compromises bird welfare and has a negative impact on production. It may be used in aged laying hens to reduce incidence of bone fractures.

AMPHIMINERAL D₃ liquid may be used in cases of increased the demand for proper skeletal Ca stores.

Directions for Use:

Administer at the rate of 1 ml/ 1 liter of drink water for poultry

Ingredients:

Vitamin D₃ (Cholecalciferol), Phosphorus (Phosphoric Acid 97%), Calcium (Calcium Chloride 98%), Magnesium (Magnesium Chloride 95%), Sodium (Sodium Carbonate 98%), Iron (Ferrous Chloride 98%), Manganese (Manganese Chloride 98%), Copper (Copper Carbonate 98%), Zinc (Zinc Acetate) and Distilled water

