

Nutriforce
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CholiNex

Feed additive on vegetable carrier



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COMPOSITION:

- Choline Chloride: 60 %
- Vegetable Carrier: 40 %

PRODUCT DESCRIPTION:

- Choline Chloride or (2-Hydroxyethyl) Trimethylammonium.
- Chloride is an essential nutrient and finds its main application as a feed additive.
- The Choline Chloride aqueous solution is absorbed to a vegetable carrier at a concentration of 50%. This is the equivalent of 44,76 % Choline.
- Choline is commonly classified as a vitamin, belongs to the family of water soluble B-vitamins. It was formerly known as vitamin B4.



- Like other vitamins it plays a significant role in nutrition but its daily requirement seems to be hundreds of times greater than that of other vitamins.

CHOLINE HAS ESSENTIAL METABOLIC FUNCTIONS:

- As a constituent of phospholipids, improving fat transport and cell construction.
- As a precursor molecule for the synthesis of the neurotransmitter acetylcholine, interacting in muscle control.
- As a source of labile methyl groups, essential for numerous biological processes.
- Choline occurs in almost all feed ingredients (see publications by the NRC); however, 95% of the choline is present as phosphatidylcholine, which only directly contributes to the formation of cell membranes.



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- Also, choline can be synthesized in the body but usually not up to the amounts required to fully cover all metabolic needs. Therefore, extra choline is often supplemented and choline chloride salt is the common form in which choline is added to the feed.
- Addition levels vary by species, but are also dependent on age, feed composition, environmental stress and breed. The required addition level is the difference between the requirements on the one hand and the levels of natural available choline on the other. It is further augmented with a safety margin, to cover up for variations of choline levels in natural feed ingredients.

PROSPERITIES:

- Appearance: light brown powder
- Particle size: 90% <0.85 mm
- Target species: all animal species



RECOMMENDED DOSAGE:

SPECIES	GROWING PHASE	CHOLINE SUPPLEMENT IN MG/KG FEED (90% DRY MATTER)
Broilers	Starting (0-8 weeks)	500-700
	Growing (8-18 weeks)	300-600
Layers	Breeding	300-600
	Starting (0-8 weeks)	800-1000
Turkeys	Fattening (8 weeks till end)	500-700
	Breeding	500-700
Ducks	Market / Breeding	900
Pigs	Starting (10-25 kg)	300-600
	Growing (25-60 kg)	200-400
	Finishing (60 kg – end)	150-300
	Gestating / Lactating	150-500
Fish	Depends on species	300-800
Shrimp		400-600
Calves		200-300
Cows		---
Dogs		1000-1200
Cats		1000-1400

PRECAUTIONS:

- These recommendations can serve as a general guideline only, since diet composition and vitamin availability from regular feed ingredients can vary greatly.
- The mentioned addition level is expressed in choline and must be recalculated into an amount of Choline Chloride to be added when drawing up dietary formulations in the feed mill. Each 1 mg/kg choline = 1.34 g/ton Choline Chloride 100%.

PACKAGING:

- Paper bags (20 kg, 25 kg net)
- External: paper with multilayer polypropylene
- Internal: transparent HPPE



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