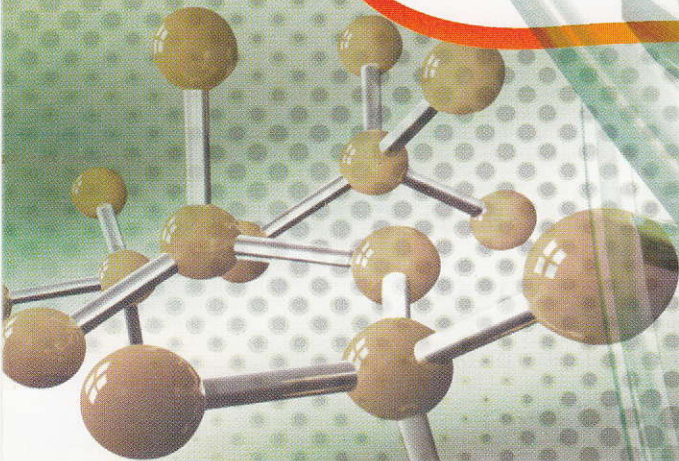
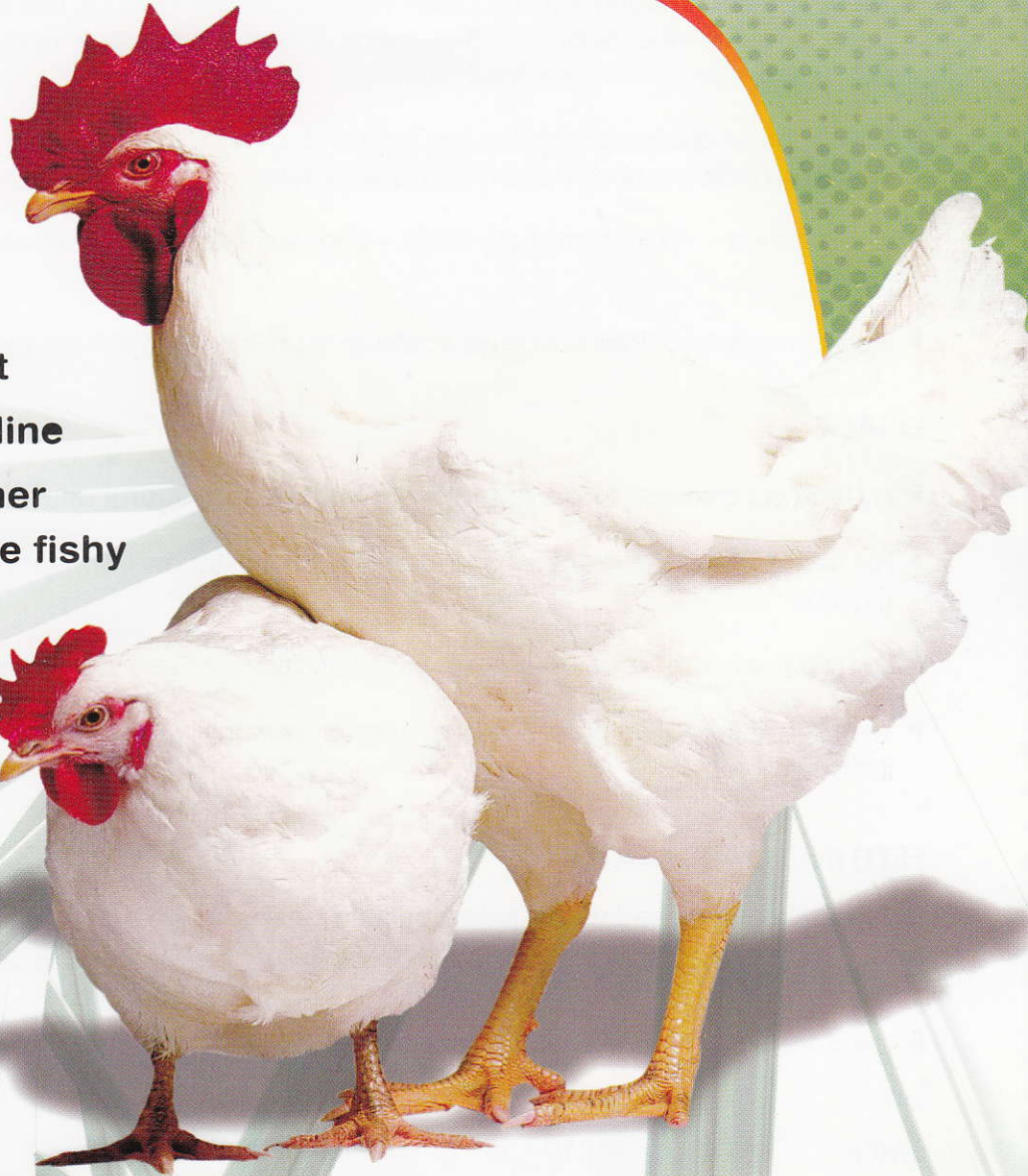


# Bio

# Choline

- ▶ Choline in natural & highly bioavailable conjugated esterified form
- ▶ Timed release and direct source of bio-active choline
- ▶ No adverse effect on other vitamins and no offensive fishy odour





## ADVANTAGES

- ▶ BioCholine contains stable and highly bioavailable choline in conjugated/esterified form (phosphatidyl choline, lecithins and equivalents) along with other phospholipids and PUFA<sup>S</sup>. This combination is significantly more active and more effective than synthetic Choline chloride or Choline citrate.
- ▶ A substantial portion of choline is lost from synthetic choline salts due to conversion into trimethylamine (TMA) which is toxic and imparts fishy odour while negligible quantity of choline is lost from esterified choline in BioCholine.
- ▶ The presence of highly hygroscopic synthetic choline chloride in the premix or diet enhances oxidative destruction of other vitamins. BioCholine is non-hygroscopic and very stable hence does not cause damage to other vitamins & feed additives.
- ▶ Phosphatidyl choline present in BioCholine also helps in conversion of homocysteine into methionine for recycling of dietary and supplemental methionine.
- ▶ Direct action - no intermediate steps - supplies Phosphatidyl choline, other phospholipids, PUFA<sup>S</sup> and similar.
- ▶ Non-corrosive, so does not cause damage to premix/feed mill equipments.

## USAGE

- ▶ As feed supplement to provide optimum quantity of natural and highly bioavailable choline.
- ▶ For maintaining optimum mobilization of hepatic fat and transportation of lipids from liver to adipose tissues.
- ▶ To help prevent liver enlargement, fatty infiltration of liver and fatty liver condition.
- ▶ To improve utilisation of high energy diet for optimum growth along with better FCR, egg production and livability.

## FEED INCLUSION RATE

BioCholine can be used as per following feed inclusion rates, depending upon the feed conditions, in place of 1 kg of synthetic Choline chloride (60%), with better prevention of FLS and higher production performance :

Broilers & Breeders	:	@ 250 - 350 gm per ton of feed
Layers	:	@100 - 250 gm per ton of feed
Swine	:	@250 - 350 gm per ton of feed

## PRESENTATION

1 & 25 kg Bag



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