



# Lipidex

An Effective Nutritional Emulsifier



## Hydrolysed Lysophospholipids

To utilize fat, animals & birds have to digest and absorb it from gastrointestinal tract. Since fat is insoluble in water & difficult to handle in liquid as in the gastrointestinal tract water insoluble ingredients like fatty acids, fat soluble vitamins & certain amino acids rely on emulsification to become water soluble & thereby bioavailable.

Phospholipid plays an important role in nutrition as an emulsifying agent & helps in the digestion of fat, also helps in acid absorption by the formation of micelle structure.

Phospholipids are surface active substance & therefore can be used as an emulsifier, absorption enhancer dispersant agent & wetting agent.

Lipidex is a specific class of Phospholipids (Lysophospholipids), which is scientifically produced to enable absorption of nutrients as it is more hydrophilic than other phospholipids.

Lipidex spontaneously form Micelles with bile salt, fatty acids & monoglycerides. These micelles are smaller & more stable than those formed with other phospholipids.

### LIMITATIONS IN LIPID DIGESTION & ABSORPTION

- ✓ The diet in modern poultry farming is provided with higher nutrient and energy concentration.
- ✓ Inadequate bile secretion in young age.
- ✓ Without emulsification, lipase cannot act.
- ✓ Reduced marketing age of broilers.
- ✓ With increase in oil content in the diet and the age of bird, the bile secretion does not increase linearly.
- ✓ Long chain fatty acids are more hydrophobic and are poorly absorbed without micelle formation.
- ✓ NSP's in feed increases the intestinal viscosity which may have the negative impact on the digestibility of nutrients including lipids.

Therefore, there is genuine need of providing biosurfactants / emulsifiers through diet to maximize the bio-availability of provided nutrients which otherwise may have gone waste due to limited production of endogenous biosurfactant.

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