



# LeciGEST Granules

## Optimized Nutritional Emulsifier

Commercial poultry feeds are commonly supplemented with fats and oils to provide higher energy density. The digestion and utilisation of fat in chickens are influenced by two major factors namely bird and diet related factors. It must be considered that fat absorption increases with bird age, as young broilers have a physiological limitation to absorb the nutrients (Lima et al., 2003).



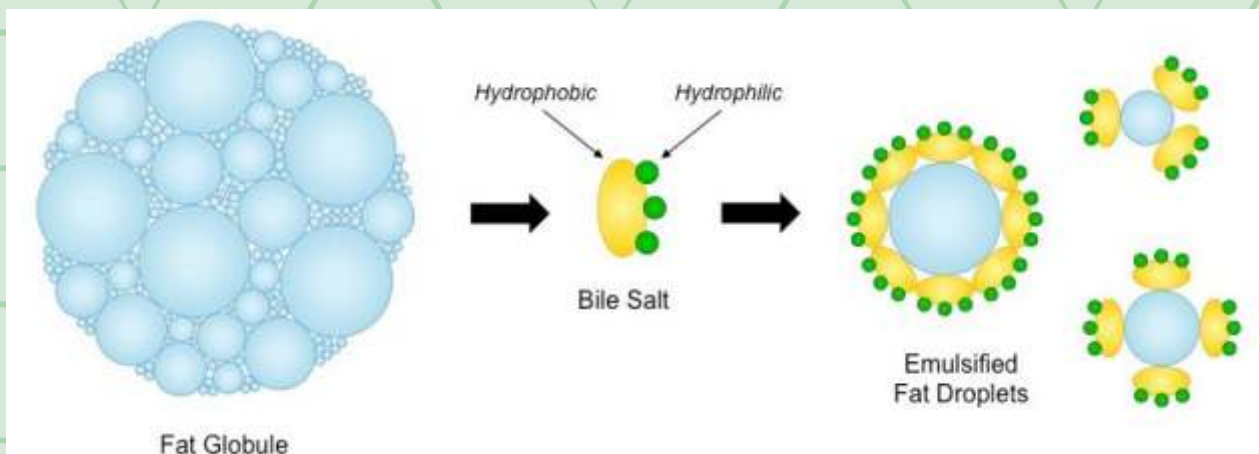
Fats are insoluble in water and cannot be solubilised in the gastrointestinal tract, and have to be emulsified before lipolytic enzymes can digest them.

### Fat digestion problems in young birds

Digestion and absorption of fat in newly hatched chicks are very poor due to immature physiological functions. This immaturity leads to an inability to form mixed micelles in the intestinal lumen of the birds which reduces fat digestion and absorption of nutrients (Leeson and Atteh, 1995).

### What are emulsifying agents?

An emulsifying agent is a substance that stabilizes an emulsion and prevents the coalescence of the globules of the dispersed phase. Adding an emulsifying agent to the mixture causes the oil to be broken down into smaller pieces that can be dispersed throughout the water.



***No fat can be digested unless it is emulsified by an emulsifier***

Emulsifiers are required to break down the fat droplets into smaller particles so that lipase can act on triglycerides easily and efficiently

LeciGEST granules is a unique combination of biological & semi-synthetic emulsifiers which efficiently improves fat digestion by forming smaller micelles for effective absorption of fat or lipids in aqueous medium of intestine.

### Composition and features of LeciGEST granules

<b>Hydrolysed Lecithin</b>	Act as a stabilising and suspending agent. Possess emulsification & lubricant properties
<b>Lysophospholipids</b>	Aid in the digestion of other lipids, by breaking up fat globules into small micelles.
<b>Phosphatidyl choline</b>	Assists in fat metabolism & prevents abnormal deposition of fat in liver
<b>Trimethyl Glycine</b>	Aids in minimize oxidative stress and enhances various metabolic processes
<b>Organic Phosphorus</b>	Involves in cell membrane structure as phospholipids & improves energy metabolism
<b>Polypeptides</b>	Exerts bactericidal activity against gram negative bacteria
<b>Lipase Enzyme</b>	Optimize the breakdown of lipids thereby increases the fat absorption & digestion

### Benefits

- Maximizes the bioavailability and effective utilization of nutrition
- Increases the digestibility of fat
- Improves growth & feed efficiency
- Boosts Apparent Metabolisable Energy (AME) value in the diet
- Improves pellet durability
- Reduces the nutrient wastage and helps in reducing the feed cost
- Improves immunity and health status



### Recommended Usage:

200 grams per metric ton of finished feed or as recommended by the Nutritionist.

**Presentation:** 20 kg multi layered bag

Free From Hormones & Antibiotics

Animal/Poultry Feed Supplement

Not For Medicinal use

Not For Human Use

## Catalyst LifeSciences Pvt. Ltd.

An ISO 9001:2015, ISO 14001:2015, HACCP Certified Company

Corporate Office: # 5, 301, 3rd Floor, Greenwood Plaza, Sector 45, Gurugram - 122003, Haryana

Customer care #: +91 892 988 1235; Email: support@catalystlifesciences.in | support@acecatalyst.in

For more information please visit: [www.catalystlifesciences.in](http://www.catalystlifesciences.in)



DISPOSAL OF BAD AND OUTER PACKAGE: Do not contaminate water, food or feed by storage and disposal. Completely empty container into application equipment. Triple rinse pail and offer for recycling or reconditioning. Containers can also be disposed of in a sanitary landfill or by incineration, or in accordance with guidance from your local waste regulation authority, such as by burning (if burned, stay out of smoke). When applying this product to water bodies, avoid solid particles from falling on nearby ground where birds and feed may be present.