



TOTAL NUTRITION  
SAFE • HEALTHY • EFFICIENT

**When  
every  
drop  
counts...**



**Nutrient Absorption and Utilization Matter the Most**

**LYSOFORTE®**

***First Used, Stronger Than Ever***



INSPIRED MOLECULAR SOLUTIONS™



Contact: 044 42202800, [mail.india@kemin.com](mailto:mail.india@kemin.com), [www.kemin.com](http://www.kemin.com)  
© 2012 Kemin Industries, Inc, 2012, All rights reserved. ™Trademark ©Registered by Kemin Industries, Inc, USA

# LYSOFORTE®

## First Used, Stronger Than Ever

**LYSOFORTE® is a natural biosurfactant that maximizes fat utilization and absorption by proper emulsification process.**

### Better Fat Utilization

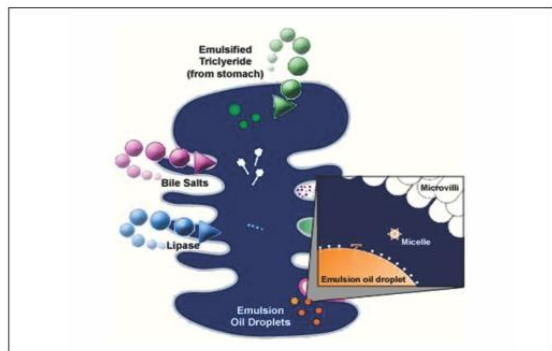
LYSOFORTE® is highly enriched with the right combination of lysophospholipids, which enables better fat emulsification with smaller droplet size.

### Lower CMC Effect

LYSOFORTE® helps in the formation of smaller and stable micelles due to lower **CMC** (Critical Micellar Concentration). This is important for improving the absorption of nutrients like fatty acids, fat soluble vitamins, carotenoids and also increases cell membrane permeability. In turn, LYSOFORTE® enables birds to gain more live weight with better FCR.

### Unique ORES™ Effect

LYSOFORTE® helps in reducing the cost of feed with reformulation due to its unique **ORES™** (Oil Replacement and Energy Sparing). Upto 9 Kgs of added oil can be replaced from feed with the inclusion of LYSOFORTE®. AME (Apparent Metabolizable Energy) in the range of 81-97 Kcal per kg of feed can be spared by including LYSOFORTE® at the rate of 500 grams per ton of feed.



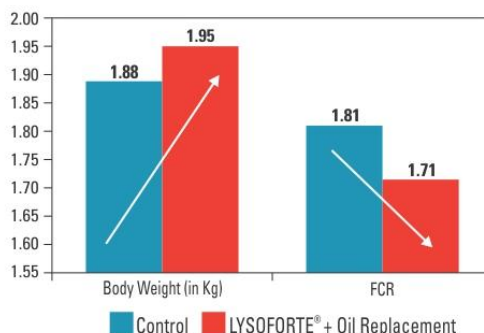
### Digestion of Fat

During the digestion, fat globules are dispersed into finely divided emulsion particles and are subsequently broken down into fatty acids by lipase. The phospholipids present in the bile are natural biosurfactants forming complexes with dietary fatty acids. Such complexes are known as micelles and are important for the absorption of feed nutrients. The enriched rations and high production standards of modern broilers always demand the dietary supplementation of right biosurfactants.

### Why is LYSOFORTE® Unique?

- Right combination of specially modified phospholipid
- More hydrophilic in nature than the other phospholipids
- Promotes formation of smaller and stable micelles ensuring complete nutrient absorption
- Improves permeability of intestinal cell membrane for rapid nutrient absorption
- Reduces feed cost due to its unique **ORES™** effect by reformulation

### Effect of LYSOFORTE® ORES™ on Broiler Performance



### Effect of LYSOFORTE® ORES™ on AME Kcal per Kg (Apparent Metabolizable Energy)

Treatments	Tallow based Diet	Palm oil based Diet	Rice bran Oil based Diet
Normal AME Diet	3085 <sup>a</sup>	3073 <sup>a</sup>	3076 <sup>a</sup>
Reduced AME Diet	2982 <sup>b</sup>	2937 <sup>b</sup>	2964 <sup>b</sup>
Reduced AME Diet + LYSOFORTE®	3069 <sup>a</sup>	3035 <sup>a</sup>	3045 <sup>a</sup>

### Benefits of LYSOFORTE®

- Enhances feed utilisation
- Promotes absorption of nutrients
- Improves weight gain, FCR and livability
- Reduces feed cost
- Increases profitability

**Inclusion Rate :** 500 grams per ton of feed.

**Presentation :** 25 kg poly craft bags.