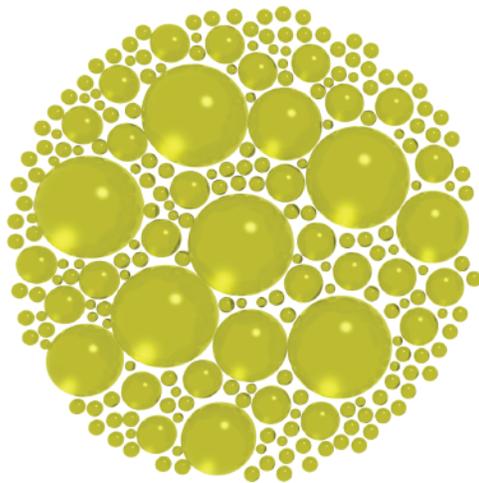


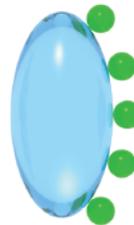


LipidMate™

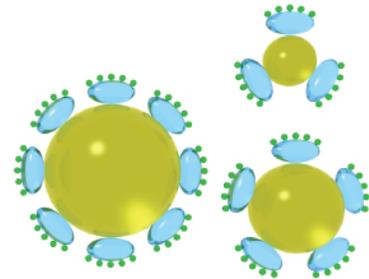
LipidMate™ is a new compounded emulsifier product which is precisely engineered and processed by our patented technology with HLB (Hydrophilic and Lipophilic Balance) varied ingredients. A cooperative effort from KTG Co., Ltd. and Germany Essen Food Co., Ltd.



Large Oil Drops



LipidMate™



Emulsified Droplets

Ingredients

Glycerol monostearate (HLB value=3.8)
Sucrose fatty acid esters (HLB value=13+-0.5)
Sorbitan fatty acid esters (HLB value=4.7-5)

Product Features

Low HLB value ingredient can disperse large oil drops into micro-oil drops, evenly distribute in feedstuff, increasing total surface area of oil

High HLB value ingredient can increase stability of micro-oil drops in water-soluble environment, prevent the micro-oil drops forming back into big oil drops and maintaining high stability of emulsified oil

CMC value 0.01 - 0.02

Indicates higher emulsification and micelle formation capacity, making LipidMate a better exogenous emulsifier source

Functional Mechanism

LipidMate creates a stable emulsion phase which speeds hydrolysis and micelle formation

*Data available upon request

Why LipidMate is profitable?

- LipidMate can dissolve in both water and oil during emulsification
- LipidMate improves emulsification performance
- For aquatic animals, LipidMate™ improves fat utilization

Benefits

- Improves protein and fat utilization
- Improves palatability, increases feed intake and feed conversion ratio
- Increases feed digestibility and promotes growth
- Promotes the absorption of fat-soluble vitamins, trace minerals and medicine
- During feed granulation process, reduces equipment wear and dust
- Improves the animal intestinal environment
- Enhances immunity
- Reduces oil usage

Feedmill usage and dosage:

- Mix LipidMate directly into feeds, at manufacturers' discretion: 80 - 150 g/t
- Mix LipidMate with oil, add the mixture into the feed.

Product Specification

Packaging: 15 kg/bag, 25 kg/bag
Storage: store in sealed, cool and dry place
Shelf Life: 18 months



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Research from university, independent and internal laboratories verify the physiological and production benefits described. Data available upon request.

KTG North America is a proud subsidiary of King Techina.