

LSAQUA FISHMEAL REPLACER : SHRIMP

Product description

LSAqua Fishmeal Replacer: Shrimp is especially designed to replace fish meal on a 1:1 basis in shrimp (*Panaeus monodon*, *P. vannamei* and *P. indicus*) diets.

Contains a blend of vegetable, single cell proteins, by-products, minerals and amino acid premixes to furnish the essential nutrients, and make a safe replacement of the fish meal; while the performance of the farm is kept.

The concept of LSAqua Fishmeal replacer will help you to reach the ultimate sustainability of your shrimp operations.

Benefits

- Important and valuable protein source based on natural protein
- Sustainable protein nutrient source
- Enhance disease resistance and stimulates the immune response
- Increase the specific growth rate and the feed efficiency ratio
- Increase the survival rate

Trace elements and additives

Chlorine, Copper, (Cu), Potassium (K), Salt (Cl based), Ferrous (Fe), Manganese (Mn), Inorganic Selenium (Se)

Attractants, gut immunostimulants, binders (binder plus), antioxidants permitted in EU

Nutrition Values

FISHMEAL REPLACER : SHRIMP™

Crude Protein (min. %)	75.0
Crude Fat (min. %)	4.3
Crude fibre(%)	1.4
Ash (%)	7.1
Gross energy (KCal)	4538.7
Gross energy (MJ)	19.0

Minerals

Calcium (Ca,%)	0.6
Phosphor (P, %)	1.0
Magnesium (Mg, %)	0.2
Sodium (Na, %)	0.3

Amino acids

Methionine (%)	1.7
Lysine (%)	5.0

Fatty acids

C18:3n-3 (%)	0.07
C18:2 (%)	0.70
n3 PUFA (%)	0.07
n6 PUFA (%)	6.26

Nutritional values on the delivered product may vary from the stated values in this datasheet; depending on natural variations and availability of raw materials.



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Replacer features and usage

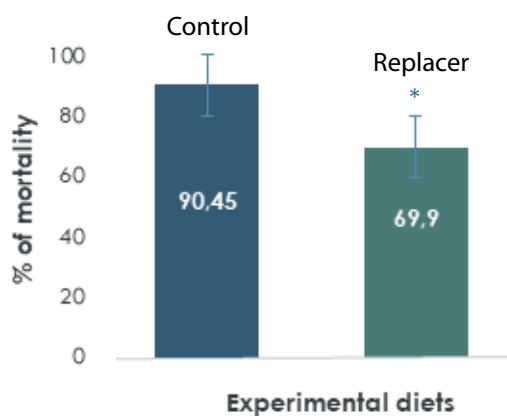
The product is available on 25-kg bags and may replace fish meal in a 1:1 ratio.

The replacer is manufactured 12 months before the expiry date mentioned on the label, and should be consumed preferably before that date. It is recommended to store it cool and dry.

Some results

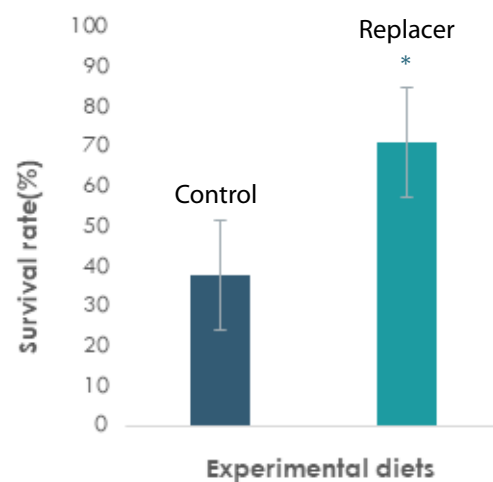
Resistance to Acute Hepatopancreatic Necrosis Disease (AHPND)

Initial weight: 0,023g Period: 28 days



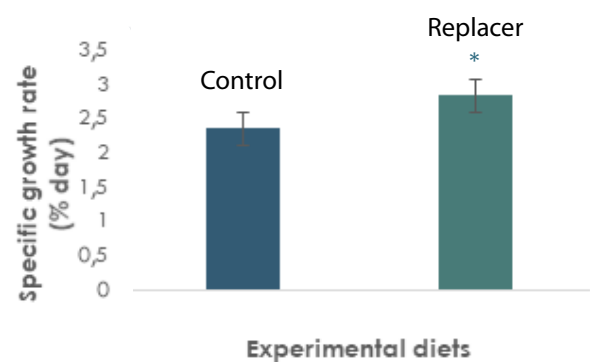
Survival and specific growth rate

Initial weight: 1,5 g Period: 60 days



Apparent Digestibility Coefficient

Diets	ADCs (%) of test diets	
	Reference	Replacer
Dry Matter (%)	73.32 ± 0.51	75.61 ± 0.47
Crude Protein (%)	87.78 ± 0.31	88.56 ± 0.25
Crude Lipid (%)	89.33 ± 0.96	89.89 ± 0.42
Phosphorus (%)	77.82 ± 1.04	77.37 ± 0.29
Gross Energy (%)	85.74 ± 0.29	86.51 ± 0.47



* $p < 0.05$ vs control