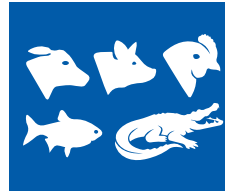


**LAVENDULA**

Animal Feeds & Nutritional Solutions

— Est. 1997 —



BETTA FISH

A SUSTAINABLE & ALTERNATIVE ANIMAL FEED INGREDIENT.**HOW DOES THE BETTAFISH RELATE TO AN ANIMAL FEED INGREDIENT?**

There is ever-increasing pressure on the sea's wild fish reserves due to over-fishing in areas, efficient mechanical harvesting and increasing environmental challenges. The situation with some fish species has reached critical levels. The world's fish reserves are documented in some instances and areas, to be at a tipping point.

BETTAFISH AND IT'S ROLE IN THE ANIMAL FEED INDUSTRY:**What part does the animal feed industry play in this?**

Fishmeal has historically been a sought-after animal feed ingredient due to its valuable nutrient composition, especially its protein contribution. The adequate and sustainable supply of fishmeal supply (as a processed animal feed ingredient) is however dependent on 'human fish consumption' through the various sea fisheries and netting practices. Worldwide, sea fishing has come under increasing pressure and this has not only resulted in fishmeal supply volatility but also quality inconsistency. Fishmeal quality is affected by various fish species origin, processing procedures and the increasing levels of fish bone and fish scale content in fishmeal.

With these issues taken into consideration, a solution was sought after for the sustainable offering of an animal feed ingredient that could assist in solving the fishmeal supply issues. This new ingredient is to serve as an alternative for the use of traditional fishmeal, but the further real challenge and focus was to also improve on fishmeal. Improvements in terms of unique ingredient sustainability and consistent superior quality supply... yes, improved and 'betta'!

FEEDING RECOMMENDATIONS:

- **BETTAFISH** is a specialized feed additive consisting of a concentrated source of highly digestible and essential amino acids.
- **BETTAFISH** is specifically developed for use in poultry diets such as broiler starter, layer and breeder diets.
- **BETTAFISH** is ideal for piglet starter, lactating and gestating sow diets.
- **BETTAFISH** is suited for use in aqua-feeds.
- **BETTAFISH** offers high and consistent nutritional value, combined with safe and free flowing ingredient characteristics.
- **BETTAFISH** improves the digestibility of the entire feed ration due to the presence of active heat stable enzymes.
- **BETTAFISH** combines the highly digestible protein sources from fermentation derivatives, plant protein isolates, yeast metabolites, α - and β - lactoglobulin.
- **BETTAFISH** improves gut health due to the presence of a combination of alpha-monoglycerides (including monobutyryl).
- **BETTAFISH** although often regarded as a fishmeal replacer also provides nutritional, economic and sustainable benefits which are remarkably 'better' than fishmeal.
- **BETTAFISH** replaces conventional fish meal in poultry, swine and aqua feeds.
- **BETTAFISH** (as with any feed ingredient) can also be formulated into the diet with help of the nutrient specifications offered.
- Due to the beneficial lower 'ash content' in **BETTAFISH** the feed formulator needs to be especially aware of the lower calcium and sodium levels in **BETTAFISH** when compared to levels of these minerals found in fish meal.

www.agrifarmacysa.co.za**Agri FARMACY SA****Agri Farmacy SA.** 96 Dr. James Moroka Avenue, Potchefstroom, 2531.

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BETTA FISH

A SUSTAINABLE & ALTERNATIVE ANIMAL FEED INGREDIENT.**TYPICAL ANALYSIS****MAIN CONSTITUENTS**

	g/kg	
Dry Matter	g/kg	910.00
Crude Protein	g/kg	600.00
Crude Fat	g/kg	65.00
Crude Fibre	g/kg	27.00
Crude Ash	g/kg	55.00

ENERGY VALUES

	MJ/kg	
ME Poultry	MJ/kg	12.50
DE Swine	MJ/kg	16.10
NE Swine	MJ/kg	9.80
DE Samonids	MJ/kg	14.70

TOTAL AA

	g/kg	
Arginine	g/kg	39.00
Lysine	g/kg	49.00
Methionine	g/kg	18.00
Meth. + Cyst.	g/kg	26.00
Threonine	g/kg	27.00
Tryptophan	g/kg	7.50
Valine	g/kg	37.00

DIGESTIBLE AA (POULTRY)

	g/kg	
Lysine	g/kg	44.00
Methionine	g/kg	16.00
Threonine	g/kg	25.00
Tryptophan	g/kg	6.50
Meth. + Cyst.	g/kg	23.00
Valine	g/kg	30.00

DIGESTIBLE AA (SWINE)

	g/kg	
Lysine	g/kg	43.00
Methionine	g/kg	16.00
Threonine	g/kg	25.00
Tryptophan	g/kg	6.50
Meth. + Cyst.	g/kg	23.00
Valine	g/kg	29.50

ESSENTIAL FATTY ACIDS

	g/kg	
20:5 n-3 (EPA)	g/kg	7.70
22:6 n-3 (DHA)	g/kg	4.00
n-3:n-6 Ratio	g/kg	1.00
Total Omega 3 (n-3) EFA	g/kg	14.50
Total Omega 6 (n-6) EFA	g/kg	6.50

MINERALS

	g/kg	
Calcium	g/kg	3.00
Total Phosphorus	g/kg	5.50
Available Phosphorus	g/kg	5.00
Chloride	g/kg	3.00
Potassium	g/kg	14.00
Sodium	g/kg	1.00

A FIGHTER
IN EVERY SENSE
OF THE WORD.

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