

## BIO MARINUS LIQUID FISH SILAGE

The same processing methods we use for our Liquid Fish Fertiliser is also used to produce our **BIO MARINUS LIQUID FISH SILAGE**.

Scientific trials were conducted by Professor Jim Gibbs of Lincoln University investigating the use of this product in the sheep and dairy industries, which demonstrated:

- A reduction of peak rumen methanogenesis in the daily feeding cycle of more than 33%.
- A reduction of faecal egg counts of internal parasites in ruminants of more than 50%.
- An increase in omega fatty acid content in milk, almost tenfold in certain groups, in dairy cows.

For further information, including:

- Assessment of Animal Production Benefits in Typical NZ Cattle and Sheep Operations
- The Effect of United Fisheries Fish Hydrolysate on Milk Taint, Cow Health and Production
- Enriching Meat and Milk with Omega-3 Oils Using Fish Hydrolysate
- Recommended dosage
- Typical analysis

visit our website: [WWW.BIOMARINUS.CO.NZ](http://WWW.BIOMARINUS.CO.NZ)



## ENZYMATICALLY HYDROLYSED LIQUID FISH FERTILISER

### TYPICAL ANALYSIS

#### MACRO ELEMENTS (w/v)

Nitrogen .....	2.20%
Phosphorus.....	1.55%
Potassium.....	0.28%
Calcium .....	0.37%
Sulphur.....	0.18%
Magnesium.....	0.09%

### TYPICAL ANALYSIS

#### TRACE MINERALS

Manganese .....	165.26 ppm
Iron .....	123.40 ppm
Zinc.....	72.44 ppm
Molybdenum .....	8.50 ppm
Copper.....	6.00 ppm
Boron.....	3.93 ppm
Cobalt .....	1.82 ppm
Selenium.....	1.20 ppm

Levels can vary slightly with this natural product

## PRODUCT RANGE

BIO MARINUS™ is available as:



Hydrolysed Fish Fertiliser



Organic Liquid Fish Fertiliser



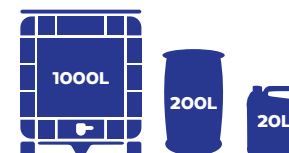
Biological Liquid Fish Fertiliser



Liquid Fish Silage



Volumes available:



Also available on request:

Organic JAS Approved

**JAS APPROVED**

FOR FURTHER INFORMATION CONTACT:

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## ENZYMATICALLY HYDROLYSED LIQUID FISH FERTILISER

**HEALTHY SOILS  
HEALTHY PLANTS  
HEALTHIER ANIMALS**

### NUTRIENTS FROM THE SEA TO FEED YOUR SOIL BIOLOGY

- ✓ Unique enzymatic production process
- ✓ A natural blend to enhance soil biology
- ✓ A complete range of macro and trace minerals
- ✓ Improves plant condition and productivity
- ✓ Improves the health of animals
- ✓ Non-toxic. Nil withholding period

Usage of chemical fertilisers could be considerably reduced by combining them with **BIO MARINUS™**.



## MANUFACTURING PROCESS

**BIO MARINUS™** is produced from a Sustainable Fishing Resource, harvested according to the New Zealand Quota Management System.

The process used to manufacture **BIO MARINUS™** is an enzymatic hydrolysis of fish offal at low temperature. This process retains the proteins, peptides and amino acids, naturally occurring vitamins, 3% to 5% fish oil (including omega-3), and 5% to 7% hydrolysed fish bone.

We believe **BIO MARINUS™** is one of the most complex and complete fertilisers produced in New Zealand. This is designed to provide a high-quality, cost-effective fertiliser for use in agriculture and horticulture.

## ENZYMATICALLY HYDROLYSED BIO MARINUS LIQUID FISH FERTILISER FEED THE BIOLOGY AND ENHANCE THE SOIL

Biologically active soils have the ability to retain moisture and release nutrients to the plants ensuring greater production and more rapid recovery from stress. To build a healthy biological soil we need products that can feed living organisms.

There is an increased public demand for safe, natural and environmentally friendly fertilisers. Enzymatically hydrolysed **BIO MARINUS™** Liquid Fish Fertiliser increases the beneficial bacterial and fungal activity in the soil and nutrient availability of both macro and trace elements for the plant.



## SCIENTIFIC TRIALS

Based on scientific trials conducted by Peter Carey of Land Research Services Ltd on:

“The Effect of **BIO MARINUS™** Liquid Fish Fertiliser in Conjunction with N (urea) on Pasture Growth”:

*“Overall, the Dry Matter increases due to **BIO MARINUS™** were significant” and “results showed the levels of Calcium and Magnesium content were 10% higher due to **BIO MARINUS™**”.*



## APPLICATION INFORMATION

Mix well prior to use.

**BIO MARINUS™** is suitable for all crops and can be used as both ground and foliar application and it benefits plants during all growth stages. It can be used as a stand alone application or in conjunction with other compatible products.

The following are guidelines only and can be adjusted according to your farm's requirements.

### SHEEP AND BEEF PASTURE:

We recommend two applications of **15 to 20 litres** per hectare in early spring and late autumn, and we suggest an additional application of **15 to 20 litres** per hectare during summer or in accordance with your farming plan.

### DAIRY PASTURE:

We recommend two applications of **15 to 20 litres** per hectare, applied three times per year or in accordance with your grazing plan.

## APPLICATION INFORMATION

(Continued)

### CROPPING:

#### GROUND APPLICATION

We recommend **15 to 20 litres** per hectare prior to planting.

#### FOLIAR

We recommend **3 to 4 litres** per hectare, diluted 1:100 as a foliar spray. Apply as required.

### STUBBLE BREAKING:

We recommend **15 to 20 litres** per hectare mixed with 2kg of industrial sugar, or 2 litres of molasses, as it may help speed up biological response.

### VITICULTURE:

#### GROUND APPLICATION

We recommend **15 to 20 litres** per hectare two times a year, in early spring and late autumn, or, in accordance with your farming plan.

#### FOLIAR

We recommend **3 to 4 litres** per hectare, diluted 1:100 as a canopy application. Apply as required.



**BIO MARINUS™** is Mother Nature's fertiliser, combining nutrients and trace elements from the sea into a blend that even Democritus, the Greek father of chemistry, would have been proud to create.

## APPLICATION INFORMATION

(Continued)

### ORCHARDS/FRUIT TREES:

#### GROUND APPLICATION

We recommend **15 to 20 litres** per hectare two times a year, in early spring and late autumn, or in accordance with your farming plan.

#### FOLIAR

We recommend **3 to 4 litres** per hectare, diluted 1:100 as a canopy application. Apply as required.

### KIWI FRUIT:

#### GROUND APPLICATION

We recommend **15 to 20 litres** per hectare two times a year, in early spring and late autumn, or in accordance with your farming plan.

#### FOLIAR

We recommend **3 to 4 litres** per hectare, diluted 1:100 as a canopy application. Apply as required.

### GROUND APPLICATION:

During ground application we recommend the addition of 2kg of industrial sugar, or 2 litres of molasses per hectare, as it may help speed up biological response.

### FOLIAR SPRAY:

Spray early morning, late evening, or on an overcast day.

**DO NOT spray during the heat of the day**

**DO NOT spray during flowering**

**DO NOT mix with selective herbicides**

**DO NOT store product in its diluted form**

### COMPATIBILITY:

Compatible with most fungicides, insecticides, fertilisers and nutritional products. Test mix prior to application.

When mixed with herbicides the fish oil in this product serves as a natural surfactant when foliar spraying.