

# Value-added packages for Rainbow trout feeds

**Alltech**<sup>®</sup>FENNOAQUA

## Hercules Vital Plus

Aquate, vitamins C and E, Top3,  
organic acids and natural oils

Especially for reducing gut, gill and  
ectoparasite problems in small fish

## Hercules Vital

**Aquate, vitamins C and E,  
Top3**

Maximizes the additional growth  
and welfare of fish

For both continuous feeding and  
periodic boosting

## Hercules Baltic

**Low phosphorus feed**

Enables high feed utilization with  
the phosphorus quota specified in  
the farming permit

## Hercules Omega

**Nitrogen and fatty acid-  
optimized farming feed**

Lower nitrogen level than the Baltic  
series

For farmers who do not want to  
change feed during the season to  
optimize EPA and DHA levels

## Hercules Nbalance

**Low nitrogen feed**

Lower nitrogen content allows for  
high feed usage for fish farms where  
nitrogen level limits further growth.

# Vital

## ADDED VALUE PACKAGE

**Alltech**® FENNOAQUA

The Vital added value package maximizes the additional growth and well-being of the fish and at the same time the income from the fish. The package includes the Aquate premix, higher vitamin C and E concentrations and the Top3 well-being package.



### The innovative Aquate premix

- Supports the immune response.
- Optimizes the functioning of the digestive tract by lengthening the intestinal villi. As a result, the fish grows better.
- Improves the function of the fish's mucus layer.



### Vitamin C and E concentrations higher than normal growing feeds

- Both vitamins are effective antioxidants.
- Fat-soluble vitamin E is stored in cell membranes, where it protects cells from oxidation.
- Water-soluble vitamin C protects the cell from oxidation inside the cell (cytoplasm).
- Vitamin C enhances the utilization of vitamin E by regenerating already oxidized vitamin E.
- Both vitamins stimulate the fish's immune system.



### Top3 wellness package

- Enhances the antimicrobial effect of organic acids and the effect of phytochemicals against gram-negative bacteria.
- Reduces the fish's risk of falling ill with common bacterial diseases caused by gram-negative bacteria.
- Improves growth and maximizes returns.

#### The ingredients contained in the package work as follows:

- Permeabilizer opens the cell wall of gram-negative bacteria, allowing the active ingredients to enter the bacterial cell.
- The organic acid enters the bacterial cell through the opening opened by the Permeabilizer and destabilizes the cell's normal pH by lowering it.
- Cinnamon oil prevents the division of bacteria.

## BIO-MOS®

is a mannan-oligosaccharide, which is known to bind and drain opportunistic bacteria. This can result in a significant improvement of the intestinal flora. Additionally, it can improve the structure and length of the microvilli in the gut through which the nutrient intake can increase. **BIO-MOS®** contributes to mucous barrier protection.

## ACTIGEN®

is derived from yeast cell walls and supports the fish's immune response. **Actigen®** furthermore optimizes growth in fish.

## BIO-MOS®

Improves intestinal function

## BIOPLEX®

Improves performance

## BIOPLEX®

is a crucial element in our new premix. **BIOPLEX®** are organically bound trace elements such as zinc, copper, manganese & iron. With **BIOPLEX®** we can improve the health, growth & performance of the fish.

**Break with tradition and feed your animals the modern way.** Alltech has proven that chelated trace minerals in the form of Bioplex® and Sel-Plex® can be included at significantly lower levels while improving animal performance. This optimizes animal mineral requirements and reduces negative environmental impacts. We call this innovation Alltech's Total Replacement Technology™ (TRT).

## ACTIGEN®

Helps maintain the immune system

## TOTAL REPLACEMENT TECHNOLOGY™

# AQUATE™

# Vital Plus

## ADDED VALUE PACKAGE

**Altech**<sup>®</sup>FENNOAQUA

The Vital Plus added value package contains, in addition to the ingredients of the Vital package, i.e. Aquate, the high vitamin C and E content and the Top3 well-being package, short and medium organic acids and natural oils.



### The innovative Aquate premix

- Supports the immune response.
- Optimizes the functioning of the digestive tract by lengthening the intestinal villi. As a result, the fish grows better.
- Improves the function of the fish's mucus layer.



### Short and medium organic acids and natural oils to improve resistance

- The resistance of the fish's mucus layer improves and the penetration of surface parasites through the fish's skin becomes more difficult.
- The walls of the fish's digestive tract become stronger and the possibility of parasites attacking the fish to infect the fish decreases.



### Vitamin C and E concentrations higher than normal growing feeds

- Both vitamins are effective antioxidants.
- Fat-soluble vitamin E is stored in cell membranes, where it protects cells from oxidation.
- Water-soluble vitamin C protects the cell from oxidation inside the cell (cytoplasm).
- Vitamin C enhances the utilization of vitamin E by regenerating already oxidized vitamin E.
- Both vitamins stimulate the fish's immune system.



### Top3 wellness package

- Enhances the antimicrobial effect of organic acids and the effect of phytochemicals against gram-negative bacteria.
- Reduces the fish's risk of falling ill with common bacterial diseases caused by gram-negative bacteria.
- Improves growth and maximizes returns.

### The ingredients contained in the package work as follows:

- Permeabilizer opens the cell wall of gram-negative bacteria, allowing the active ingredients to enter the bacterial cell.
- The organic acid enters the bacterial cell through the opening opened by the Permeabilizer and destabilizes the cell's normal pH by lowering it.
- Cinnamon oil prevents the division of bacteria.

# Baltic

## LOW PHOSPHORUS FEED

Highly efficient feed with high protein content. The low phosphorus content enables e.g. with the use of the phytase enzyme, which improves the fish's ability to utilize phosphorus and otherwise poorly digestible plant sources of phosphorus.

**Alltech**<sup>®</sup>FENNOAQUA

0,60%

### Phosphorus content

Enables high feed utilization with the phosphorus quota specified in the breeding permit

6,3%

### Nitrogen value

# Nbalance

LOW NITROGEN FEED

**Altech**<sup>®</sup>FENNOAQUA

This grower feed enables maximum additional growth for fish farms where nitrogen is a limiting factor in feeding.

5,7 %

**Nitrogen value**

The lowest nitrogen value in our feed sortiment enables high feed utilization within the nitrogen quota specified in the farming permit.

0,70 %

**Phosphorus content**

# Omega

NITROGEN AND FATTY  
ACID OPTIMISED FEED

**Altech**<sup>®</sup>FENNOAQUA

For farmers who want to ensure sufficient fatty acid levels, but do not want to change feed during the season to optimize EPA and DHA levels

6,0%

**Nitrogen value**

Lower nitrogen level than  
Baltic series

0,65%

**Phosphorus content**