

progut[®] AQUA

natural nutritional health product
used in aquaculture diets.

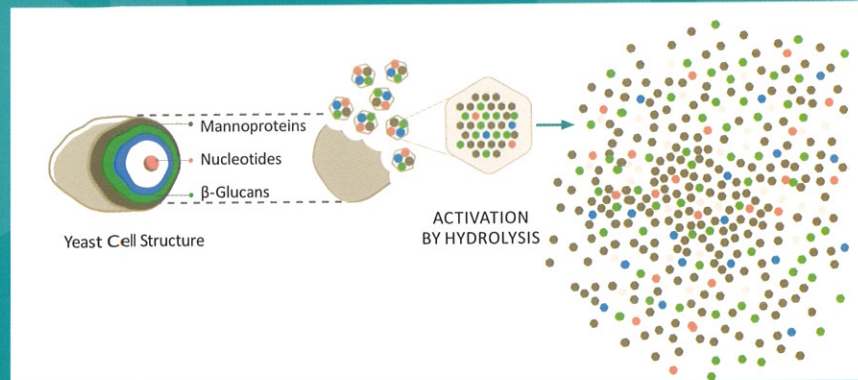


New Generation Hydrolyzed Yeast



What is Progut[®] Aqua ?

Progut[®] Aqua is a '3 in 1' yeast-based feed ingredient. Whole yeast cells are extracted from the brewing industry and processed in a way that enhances all the nutritional and health benefits of both the yeast cell wall and cell contents. It is rich in mannoproteins, beta glucans, nucleotides and peptides. It is stable during storage and pelleting.



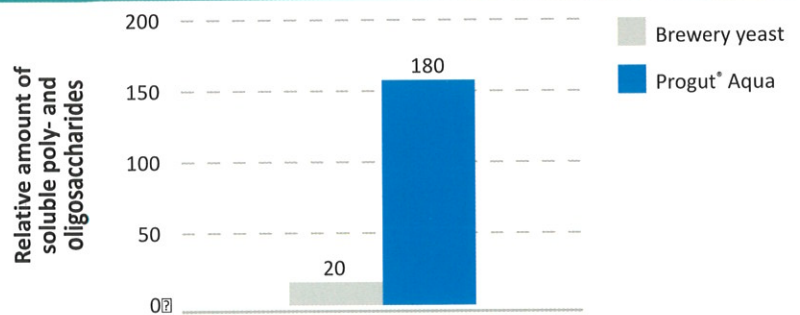
Activation by hydrolysis

The unique patented hydrolysis process of progut

- Opens the layers of the yeast cell walls
- Retains all bioactive components of the yeast cells
- Breaks down the mannoproteins into soluble poly- and oligosaccharides

Proximate Analysis

• Crude Protein (min)	32.0%
• Crude Fat (min)	2.0%
• Crude Fiber (max)	0.2%
• Ash (max)	22.5%
• Moisture (max)	6.0%
• Non Fibre Extract	34.3%



Ref. Glykos Ltd. 2008

After hydrolysis, Progut[®] Aqua contains 9 times more soluble poly and oligosaccharides than the deactivated yeast raw material before hydrolysis. – Glykos Ltd Finland



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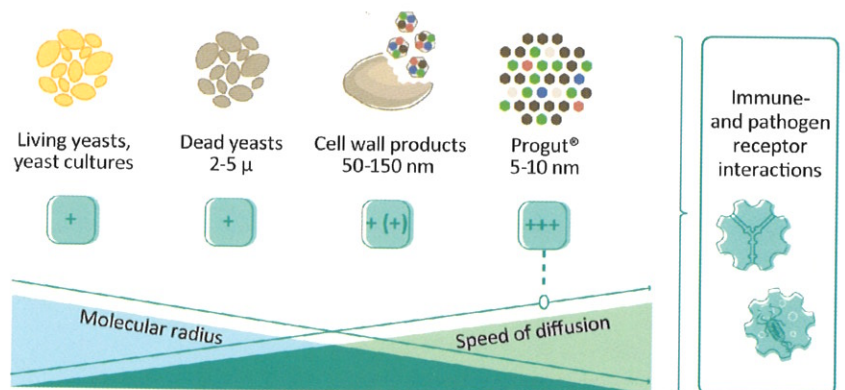
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Aqua Feed Supplement
Not for Human Use
Store Under Room Temperature

Optimized to enhance activity

- Sugar structures in Progut are of optimal size to maximize its pathogen binding and immune stimulating potential.
- As the molecular radius of sugar structures decrease, the spread of diffusion in water increases.
- The patented hydrolysis process creates the optimal balance between exposed sugar structures and their water-solubility.

Size and water solubility matter



Functions

- Exogenous supply of nucleotides promote growth of fish/shrimps at early stages of development to meet their high rate of cell replication.
- And also act as chemo-attractant and feeding stimulant.
- Hydrolysed yeast products viz nucleotides, mannoproteins and B-glucans improves Innate & Adaptive immunity.
- Helps stress mitigation and protect from disease infestation.

Benefits

- Enhances health stress and reduced risk of disease outbreak during stress or exposure to pathogens.
- Enhancement of the immune response during climatic changes. Fluctuations in pH and salinity etc.
- Improved culture performance in terms of survival, growth and feed conversion.

Recommended Dosage : 5 -10 gms/kg Feed or As Directed by Aquaculture Consultant

Manufactured by



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