

## Bacta-Pur® Improves Eel Survival and Profitability in a Recirculated Aquaculture Farm ©2009

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*ECOPROBIOTICS® of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its' ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial; they NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit. All bacterial cultures in the Bacta-Pur® product are listed on the Canadian DSL.*

### Background

Recirculation systems with declining water quality face significant problems. Diminished water quality not only stresses the animals, reducing growth, but also makes them more susceptible to disease. Increased animal susceptibility and reduced water quality allows disease causing organisms to survive and reside, creating a potential for massive losses.

### Treatment Program

An eel farm in the Netherlands was experiencing significant problems, they stated, were due to *Vibrio* spp. and other pathogens. Frequent alarms, increased eel stress and factory odors, were creating an unwelcome environment for both eel and the aquaculturist. Increased mortality rates and periodic system water changes were reducing overall profits. The Bacta-Pur® N3000 was incorporated into the management strategy to improve water quality.

### Results

Since the introduction of the Bacta-Pur® System, the water quality has been greatly improved. Mortality rates dropped almost immediately upon addition of Bacta-Pur® N3000, while biomass has been increasing steadily. These results, coupled with the decrease in alarms, eel stress and odors, have significantly increased the profitability of the operation.

