

August 16, 2013

## Press Release

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### What:

PRO4000X tablets contain two strains of Bacillus that have been selected for their innate gene expression resulting in the production of a wide range of enzymes that facilitate their ability to degrade organic material and break ammonia down in aquatic ecosystems. Each tablet contains more than 64 billion CFU. Unlike conventional products, no activation is required. The tablets are added to ponds or hatchery tanks where they settle to the bottom, slowly dissolve and the bacteria proliferate. They are in direct contact with the pond sediments and large numbers of bacteria are delivered into a relatively small area. Targeted delivery to problem areas in ponds and canals ensures a more efficient and less costly approach towards managing accumulated metabolites in production systems. Early mortality syndrome (EMS) more appropriately known as AHPNS or AHPND is due to a strain of *Vibrio parahaemolyticus* that forms green colonies of TCBS.

Recent trials (not solicited by us; initiated by clients) in Indonesia and India demonstrated that PRO4000X tablets were able to reproducibly alter the microbial composition of hatchery tanks, reducing vibrio loads substantially. The trials in India were conducted by:

Royal Bio-marine

Tamil Nadu, India

Email: [habeeb@scientist.com](mailto:habeeb@scientist.com)

Contact person: Habeeb Rahaman

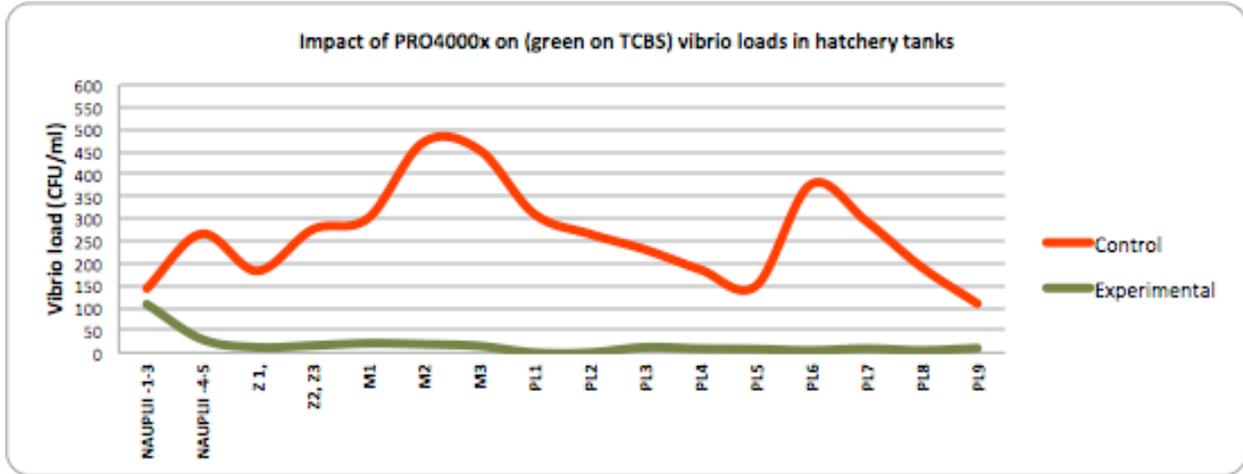
Graphs 1 and 2 show the reduction of green and yellow vibrio colonies in a hatchery tank treated with one tablet for each 5 MTs of water daily during the course of the production cycle. PRO4000X tablets substantially impacted vibrio loads in the production system. Graphs 3 and 4 show the results from another companies observations (Indonesia-client wishes to remain anonymous) regarding the relative levels of green colonies on TCBS in hatchery tanks and on the surface of animals.

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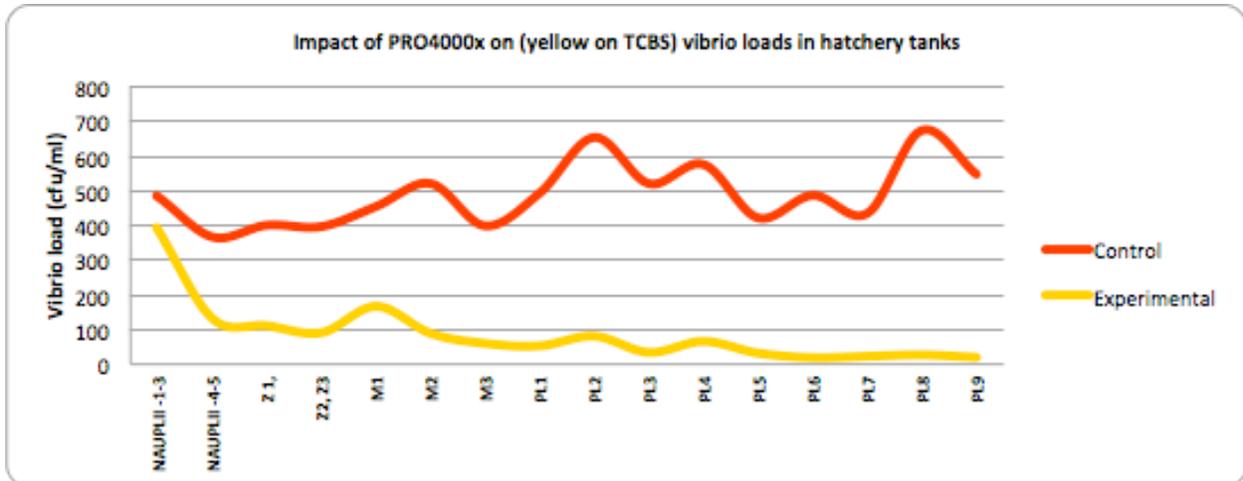
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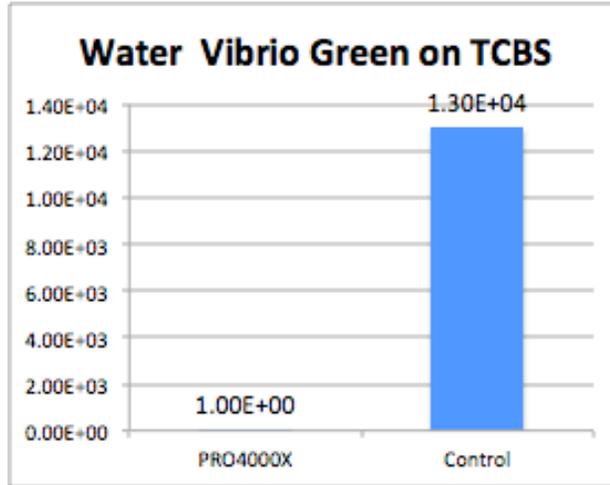
Graph 1. PRO4000X reduces green vibrios in hatchery tanks. (India)



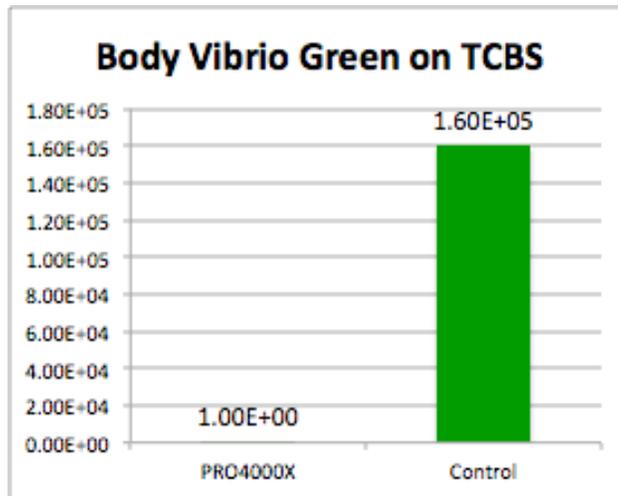
Graph 2. PRO4000X reduces yellow vibrios in hatchery tanks. (India)



Graph 3. PR04000X reduces green vibrios in hatchery tanks (through PL12). (Indonesia)



Graph 4. PRO4000x reduces green vibrios on the bodies of PLs. (Indonesia)



**Conclusions:** The results clearly demonstrated that PRO4000X tablets can reduce the loads of potential pathogens in hatchery production systems. Control of vibrios is critical to the long-term success and sustainability of shrimp hatcheries and farms. This is one tool. The tablets are an inexpensive way to control vibrio loads in shrimp and fish hatcheries, acclimation systems, nurseries and Artemia tanks.