



Iron Removal Bacteria IRB500

Lab-fermented IRB500 removes iron and pyrite contamination in aquaculture ponds.

The IRB500 Iron Removal Bacteria is a unique bacteria species that has been proven to remove excess iron and pyrite contamination in aquaculture ponds, as well as in other industries including agriculture.

Excessive levels of pyrite have long been associated with low productivity in fish and shrimp culture. Pyrite is a common iron sulfide material found in most tropical coastal areas including volcanic soils and mangrove ecosystems. When exposed to air, pyrite in moist soils is oxidized. This results in iron oxides and sulfuric acid. Sulfuric acid leaches iron and heavy metals from the soil and this acidic combination of reactive and toxic metals is detrimental to most species of fish and shrimp, as well as standing crops such as rice and corn. Untreated pyrites in ponds and paddies results in chronically low production, and even total loss of crop.

In shrimp culture, as well as in fish culture, the excessive levels of pyrite negatively affect the respiratory health of animals. Pyrite easily clogs gills leading to poor oxygen absorption resulting in increased stress and mortalities.

GLB's IRB500 is a laboratory-fermented *Bacillus* spp in a rich mineral carrier package designed for soil remediation to remove excess pyrites in ponds and plots.

Mechanics of pyrite elimination: (Information sheet available separately)

IRB500 benefits:

- Unique, cost-effective management tool for pyrite removal (versus flooding-rinsing-repeat cycle)
- Maximum oxygen absorption efficiency in animals when coupled with optimum aeration, resulting in increased growth rates
- Elimination of toxic effects brought about by acidification of soils and leaching of toxic and heavy metals
- Removal of heavy metal toxins inside the animal
- Achieves higher production volume and retains pond sustainability over many cycles

The Complete Aquaculture Program





IRB500

Application

Pond Preparation: Broadcast 500g IRB500 per hectare on moist, ready to culture pond, prior to water inundation. Mix dose with 200L of water and broadcast throughout the pond. Inundate pond within 24 hours.

Repeat application or increase to 1.0 kg per hectare if pyrite level is high and covers more than 30% of pond substrate.

Pond Maintenance: Weekly, mix 100g IRB500 with 100-200L of water and broadcast throughout the pond. Increase dose to 150g to obtain optimum results, if required.

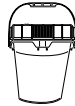
For Best Results: Broadcast IRB in the early morning, with maximum aeration for at least 3 hours.

Composition

Bacillus spp on a fortified trace mineral pack for speedy and optimized replication.

Formula contains probiotic bacteria, dry premium natural trace minerals, multiple enzymes, organic enzymatic agents, and stabilizers.

Packaging



18kg pail
Screw-head Pail

Handling and Storage

Apply only as instructed. Though this product is non-toxic and non-hazardous, it is not suitable for human consumption. The manufacturer assumes no liability, expressed or implied, in the use of this product.

Store this product out of direct sunlight in a cool (under 38° C) dry area. For best results, use within 12 months. Request an IRB500 MSDS for more specific information.

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