

Maximizing Yield of Crops by Reducing Phosphorus Fixation

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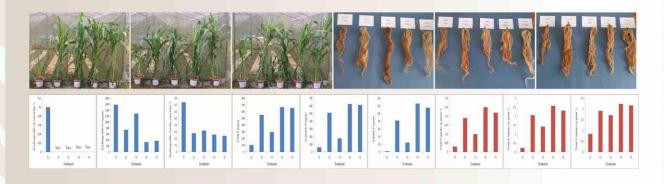
INTRODUCTION

Large amounts of fertilizers including phosphatic fertilizers are used because of phosphorus or calcium fixation in acid soils. We have produced an organic fertilizer from agricultural wastes that reverses phosphorus fixation and well as improves phosphorus uptake, crop yield, and soil quality.

O INVENTION



APPLICATION



O USEFULNESS ······

- · Yield of 10 t/ha versus 8 t/ha
- Reduces tasseling and harvesting time by 10 days
- · Reduces P fertilizer and labour requirement
- · Nearly neutral soil pH
- Reduces environmental pollution indirectly

O BENEFITS ···

- Bumper harvest (profit/100t = RM26,400)
- 50% P fertilizer reduction (profit/100t = RM29,700)
- · Improves soil quality (no Al & Fe toxicity)
- Environmentally friendly
- · Green technology



POTENTIAL CONSUMERS

- Fertilizer industries
- Plantation and other related farmers
- Environmentalists
- Waste management agencies



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