

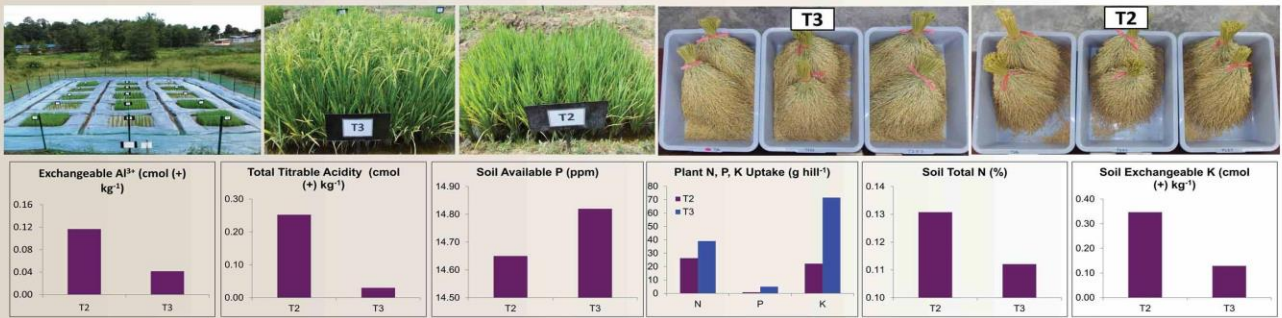
INTRODUCTION

Rice yield in Malaysia is currently low. We have transformed rice straw and saw dust into activated humic substances which when applied during land preparation are able to double rice yield, reduce fertilizer use, labour cost, and harvesting time. It also improves grain filling and soil quality.

INVENTION

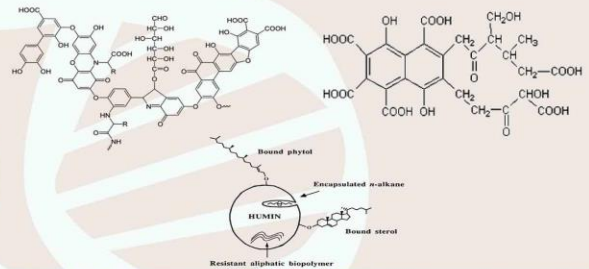


APPLICATION



USEFULNESS

- Yield of 10-13.5 t ha⁻¹ versus 5 t ha⁻¹
- **90%** versus 84% grain filling
- Saves money and time of production
- Reduces cost of fertilization
- Nearly neutral soil pH



BENEFITS

- Bumper harvest (**profit/100t=RM87,780**)
- Reduces fert. use (**profit/100t=RM64,777**)
- Reduces harvesting time by **6-10 days**
- Improves soil quality (no Al and Fe toxicity)
- Environmentally friendly
- Green technology



POTENTIAL CONSUMERS

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



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