UTM
UNIVERSITI TEKNOLOGI MALAYSIA

MiFGro

MICROBIAL FEED ADDITIVES FOR GROWTH

(PI 2015 702201)

PRODUCT FEATURES

- Additive contains probiotic double-coated using agricultural wastes suitable for animal feed.
- Fibers from agricultural waste protect probiotics from direct heat by creating a physical barrier until it reaches the target compound.
- Prototype proven on a laboratory scale - Major impact on farmers in improving the quality of their livestock.

NEEDS

- Probiotic feed normally is being applied in raw form.
- Heat from storage or pelleting process decreases viability and effective activity of the probiotics.
- New technology is necessary to overcome this problem.

APPROACH

- The innovation of encapsulation technique to enhance thermotolerance of the microbes.
- Provides double protection effect to the probiotic from direct heating.
- Convenient for farmers and relevant agro-industries applications.

BENEFITS PER COST

- Prolongs shelf life - up to 90% viability.
- Improve productivity, health & quality of ruminant.
  - Increased weight of the animal (±5%).
  - Increased yield of milk from cow (±20%).
  - Shorten the harvest time of aquaculture products (±25%).
- Reduce management cost :
  - Low storage cost (< 5%).
  - Less usage of medicine/antibiotic (<5%).
  - Reduce possibility of disease (<10%).

COMPETITORS

- Existing feed additives manufacturers.
- Protein and chemical manufacturers.

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FOBERG

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