



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



PI 2019005038

ACT TECHNOLOGY

ORGANO-ZINC-KAOLINITE AS ANTIMICROBIAL AGENT

PRODUCT FEATURE:

An innovative antimicrobial agent for healing or preventing infected wound using compact powder of hybrid organic-inorganic material.

NEEDS

- ◆ High cost of treatment of infected wounds
- ◆ Release of high amount of antimicrobial agents into environment contributing to environmental pollution

APPROACH

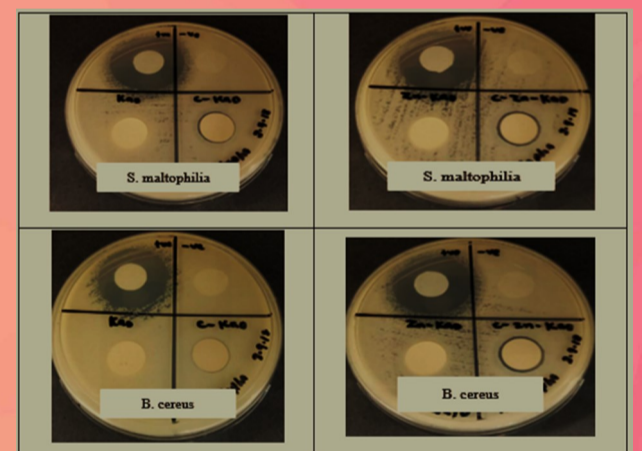
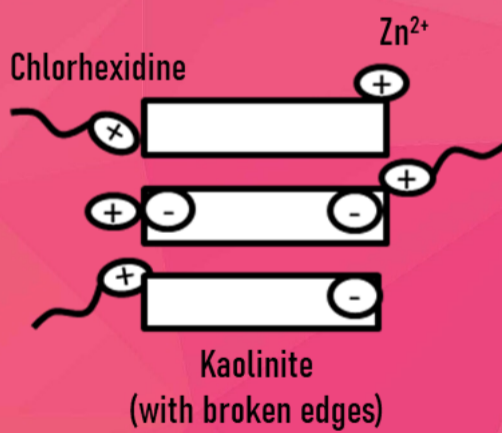
- ◆ Initial treatment of wound using ACT: A combination of two antimicrobial agents (Chlorhexidine and Zinc ions)
- ◆ Immobilization of two antimicrobial agents on natural kaolinite as a carrier system

BENEFITS

- ◆ Prevention of infection at wound area
- ◆ Low amount of antimicrobial agents
- ◆ Easy to use, safe, effective, convenient, affordable and new style

COMPETITION

- ◆ Existing products are antimicrobial agents or wound care products in the form of oil, liquid or cream
- ◆ However, the uniqueness of ACT is the product in the form of compact powder



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