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TITLE: STUDY OF INVITRO ANTIBACTERIAL

ACTIVITY OF *Artemisia annua*

(SWEET WORM WOOD) EXTRACT.

COURSE: HIGHER DIPLOMA IN BIOTECHNOLOGY

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ABSTRACT

Artemisia annua is an annual herb native to Asia which has various interests in the medicinal fields mostly due to its anti-malarial action

The main active principle as anti-malarial is artemisinin which is available commercially as anti-malarial drug. Various synthetic drugs based on artemisinin has been registered in Africa

In spite of anti-malarial interest in *Artemisia annua* herb by scientist, the study was carried with different objectives which ventured to determine whether *Artemisia annua* had any anti bacterial properties and also to investigate the importance use of *Artemisia annua*

The study was out at Kenya Neem Foundation laboratories.

This was done through inoculating of ten different species of bacteria in ten different Petri dishes, plated with Mac Conkey agar and then sensitivity disk impregnated with *Artemisia annua* extract was put on to the agar surface before incubation at 35°C for 18 hours.

After 18 hours of incubation the zones of inhibition was measured to the nearest millimeter and recorded for each bacteria

The bacteria used for research was:-

1. *Shingella dysenteria*
2. *Salmonella typhi*
3. *salmonella paratyphi*
4. *klebsiella pneumonia*
5. *streptococcus agalactiae*
6. *proteus vulgaris*
7. *Bacillus cereus*
8. *Staphylococcus aureus*
9. *Pseudomonas auriginosa*
10. *Escherichia coli*