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**THE KENYA POLYTECHNIC UNIVERSITY  
COLLEGE**

**DEPARTMENT OF HEALTH SCIENCE AND  
BIOTECHNOLOGY**

**TRADE PROJECT**

**TITLE:** EVALUATION OF ACUTE TOXITY OF NEEM EXTRACTS  
USING MICE MODEL

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**PRESENTED TO:** THE KENYA NATIONAL EXAMINATION COUNCIL FOR  
PARTIAL FULFILLMENT FOR THE AWARD OF DIPLOMA  
IN PHARMACEUTICAL TECHNOLOGY

**EXAM SERIES:** NOVEMBER 2008

## ABSTRACT

An experimental research was carried out to determine the LD50, ED50 and the induced symptoms due to acute toxicity of neem extracts. This was to come up with the dose that is safe and effective especially during clinical trials in man. Samples from 72 mice was used where 36 were used to determine LD50 and the other 36 to determine the ED50. the selection of doses was by pilot test and they ranged from 300-1000mg/kgbw. Each dose was given to group of four mice hence 9 groups were used for the study. Data was collected by observation of clinical signs and also by carrying out lab tests. It was presented and analyzed in tables, bars and line graphs, in which the dose response curve was used to determine the LD50 and the other line graph the ED50. 700mg/kgbw was found to be the safe and effective dose and contributed to the conclusion that it is the dose, which need to be used when carrying out clinical trials in human beings, for further studies on Neem i.e. pharmacological studies.