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FUCULTY OF APPLIED SCIENCE

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I.D. NUMBER N910087 D

PROJECT TITLE: Isolation and identification
of Enterobacteriaceae
from biscuit powders.

Project submitted in partial fulfilment of the
requirements of the Bachelor of Applied Sciences
Honours .
(Biology and Biochemistry)

PROJECT SUPERVISOR
PROF. R N OKAGBUE

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ABSTRACT

A total of 10 samples of biscuit powders were collected randomly over a period of weeks. They were analyzed by spread-plating 0.1ml of suitable dilutions of the samples on MacConkey agar plus 1% glucose. Average plate counts of all the samples ranged from 1.0×10^2 to 4.0×10^4 cfu/g.

For identification, representative colony types were purified and preserved on nutrient agar (NA) slopes before tests from a dichotomous key were carried out on the isolates. Of the 21 isolates obtained 15 were gram-negative rods, probably Enterobacteriaceae. The other 6 isolates were all gram-positive cocci which makes them probable staphylococci.