**TITLE PAGE**

**ISOLATION AND IDENTIFICATION OF BACTERIA FROM FOMITES IN GODFREY OKOYE UNIVERSITY RESTROOMS.**

**BY**

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**APPROVAL PAGE**

This project written under the direction of candidate project supervisor and approved by the members of project committee, has been presented and accepted by the department of Microbiology, Godfrey Okoye university in partial fulfillment of the requirement for the award of Bachelor of science (B.Sc.) Degree in Microbiology.

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**DEDICATION**

This work is dedicated to Almighty God.

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I am grateful to Almighty God for his protection, mercies and guidance upon my life, may his name be glorified.

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**ABSTRACT**

This study was aimed at isolation and identification of bacteria from fomites in Godfrey Okoye University restrooms. Total number of 24 samples were collected from the different restrooms (female, male and staff toilet) including the toilet seats and door hand handles. The samples were inoculated onto MacConkey and nutrient agar and incubated at 370c for 24 hours, the colonial morphology which includes the colony colour, shape, size, surface, elevation and number of colonies formed were recorded. The isolates were gram’s stained and purified. The biochemical test conducted were catalase, coagulase, citrate, oxidase, indole, methyl red test and voges prauskeur (IMViC) . The following bacteria were identified; *Staphylococcus aureus, Klebsiella* spp, *Pseudomonas* spp, *Bacillus* spp, *proteus* spp, *Escherichia coli*. In this study 75% of the isolates were positive. This result showed that the restrooms were highly contaminated with bacteria. Regular washing of hands with soap is advised, general public needs to observe proper hand hygiene and use of quality disinfectants in cleaning restrooms to reduce the spread of contagious diseases.