



**PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF  
*Paspalum conjugatum* (CARABAO GRASS) AND *Cyperus rotundus* (NUT  
GRASS) ON FOOD-BORNE PATHOGENS**

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### ABSTRACT

This study determined the phytochemical components and the antimicrobial effects of crude extracts of the *Paspalum conjugatum* (carabao grass) and *Cyperus rotundus* (nut grass) against foodborne pathogens such as *Salmonella typhi*, *Escherichia coli*, *Bacillus subtilis* and *Staphylococcus aureus*. The plant extracts undergo phytochemical analysis to determine the presence of different bioactive compounds such as tannins and alkaloids for carabao grass, and, terpenoids, flavonoids and cardiac glycosides for nut grass. To determine the susceptibility of the foodborne pathogens against the extracts, the zone of inhibition using different treatments were measured and compared to the positive control using Chloramphenicol. This study used the following treatments: T1 - *Paspalum conjugatum* extract; T2 –*Cyperus rotundus* extract; T3 –*Paspalum conjugatum* and *Cyperus rotundus* extracts. The results of the study showed that the plant extracts do not completely inhibit the test organisms, but rather helped in terms of thinning their growth.



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