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Formulation of microbial culture medium using a combination of human urine and acha (*Digitaria exilis*) extract as broth

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An investigation was carried out on the efficacy of the combination of Human urine and acha extract as a component in the formulation of a new bacterial medium called FACO-MEDIUM. The medium was suitable for the growth and development of Gram positive and Gram negative bacteria. Three different quantities (300g, 200g and 150g) of the combination of urine and achaextract was used. The 200g quantity supported bacterial growth and development more. Nutrient Agar (NA) and Blood Agar (BA) were used as control, being conventional bacteria media. The FACO-Agar was observed to show a rapid growth of *Brucellasp*, *Streptococcus pneumonia*, *Straphylococcusaureus* and *Escherichia coli*, when compared to both NA and BA. Proximate analysis was carried out on the FACO-Agar formulation. The medium showed rich proximate content which makes it a suitable medium for the growth, identification and characterization of bacteria. The explicit methods of formulation are discussed.

Biography

Onwuliri F C got his PhD at the age of 35 years from University of Jos. He did his BSc, MSc and AIML from the University of Nigeria Nsukka, University of Jos and Medical Laboratory College Vom, Nigeria respectively. He has acquired a wide range of administrative experience. He is currently serving as the Head of Department of Plant Science and Technology, University of Jos and Director of Victory medical laboratory service, Jos Nigeria. He has published about 165 papers in both national and international Journals. He has also supervised over 150 undergraduate students. He also has held several other positions and served in several committees, both ad-hoc and statutory, within the University of Jos and other Universities in Nigeria. He has won many Scholastic Honours and Awards.

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