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MATRIC NUMBER: 17/SCI05/009

TITLE: Quantification of microorganisms present in ABUAD Microbiology Laboratory at 6pm.

AIM: To evaluate the concentration of microorganisms in the indoor environment of ABUAD Microbiology Laboratory.

MATERIALS: Petri dish, Plate Count Agar (PCA), incubator, autoclave, weighing balance, spatula, beaker, foil paper, distilled water and measuring cylinder.

PROCEDURE:

* Plate count agar was prepared according to the manufacturer’s specification and sterilized using the autoclave for 15minutes.
* After sterilization, the agar was left to cool before pouring into the Petri dish where it solidified.
* The Petri dish was left opened for 30minutes before it was covered.
* It was then placed in the incubator and incubated for 24hours at 37’C
* The colonies were counted and the cultural characteristics were observed.

RESULT:

Total colonies counted- 13colony forming units

OBSERVATION: Based on the cultural characteristics observed they were more bacterial colonies( dry round surfaces, pale yellow/green underside, convex elevations with smooth margin) than fungi colonies (Round with radiating margins, blue black/white underside with woolly or irregular margins) . However, more laboratory experiments to further strengthen this are warranted.

DISCUSSION: The result above might be due to the number of occupants present during the time the experiment was done relative to the size of the laboratory (low number of occupants per area).

CONCLUSION: The experiment proved that microorganisms are ubiquitous are found in the air.