[120BM0014]

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Aim - To transfer a bacterial monoculture into a freen medium using Aseptic Technique.

Requirements: Inoculation loop, inoculation needle, bursen burner

Enocedume - S'owly tunning the gar by igniting the burner. Flame can be adjusted by notating the collan to control the flow of exygen. Inoculation took are sterilized by passing them through the nottest pant of the flame. After being sterilised, the took shouldn't set down on any sunface. Thus after flaming a loop take the lid off the container of liquid culture & then passing the mouth through the flame, then dipping the loop into the liquid & again flame the mouth before replacing the lid . Lift the lid of the petril- plate and hold it over the base as a shield in order to prevent contaminants from falling onto the plate. Spread the bacteria over the sunface of the plate. This was the way to transfer a bacteria from liquid culture to petri dish. Likewie in order to transfer a bacteria from liquid to liquid culture, we need to sterilise the inoculating loop & then pass the mouth of the container through flosh. Then dip the loop in the liquid & flame the mouth again before preplacing the lid . Take the tube of liquid medial pass it through the flame, then dip the loop consisting backenia into the tube flame, With similar way, we will Fransfer bacteria from petri place to state culture Clean area of agan plate helps in cooling the needle. Rub the inoculation needle over a single colony and transfer bacteria to a culture tube with agan, then again after eserilised transfer bacteria from peris dish to liquid . Do the same

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procedure of cooling the needle and thub the loop over a single colony. Taking the liquid media premove the lid and the pass the mouth through flame. Then dip the loop with bacteria in that tube & similarly flame the mouth before putting the lid & again sterilise the needle.

Precautions :-

- i) Handle the bursen buttonen carefully
- ii) stemilise the whole inoculation needle in the flame.

(ii) Distribute the bacterial colony eventually over the plate.

iv) Flame the mouth of the tube both at the time of unliding & putting the lid.

Aim: To obtain single isolated pune colonies using stream Planing.

Requirement: Sample of mixture of bockenia, petriplate containing solid medicion, wine loop, bussen burners.

Procedures + To cool the sterilized loop, touch it to a sterile again plate, then dip the loop into a sample containing a mixture of boctenia to pick them up. Before continuing to streak the plate, the remains bacteria on the loop one first killed in the flame, after cooling the sterilized loop, drag it through the previous path picking up a small number of bacteria and spreading them into a new arrea of the plate. After sterilizing and cooling the loop again, the procedure is repeated . With each new path, the loop picks up a smaller number of bacteria, and themefore can sphead them farmer and farither apout. During incubation, the bacteria multiply and produce colonies. Each colony consists of cells derived from a single parent pacterium. The isolated colonies found in the last streak represent isolated strains to ensume the strains purity. The streak plate procedure is usually repeated a few mone times, using an isolated colony as the sounce of starting bacteria.

Precaution -

1) Label first, streak after that, help you cavoid a big headache later.

Teacher's Signature

Dios - To Isolate on count the individual bacteria present in a diluted sample containing a mixture of different species.

Bequirements: Numient agan plates, Lazy Susan Turntable . L-shaped bent gloss ned, 95% dechel, Beaker.

Procedunes :

1) Priepare different dilutions of the comple.

2) Label the nutrient agant place with wax manking pencil. Mention the organism name, type of agan, alate and the platen's name.

3) Lift the plate's lid and use it as a shield to protect it

from ainbonne contamination.

sample from the appropriate desired dilution services unto the center of the surface of an again plate.

5) Replace the lid on the plate.

6) Properly dispose of the pipetting instruments used to insculate the medium because it is contaminated.

7) Sterilize the L-shaped glass spreader by dipping this into 90 % alcohol and then flame the glass spreader.

8) cool the mod for 10-15 seconds.

a) After farming the glass nod, lift the lid of the plate and we it as a shield from airborne contamination. Then touch the nod to the again surface away from the inoculum to cool it.

During spreading hold the plate lid with the base of your thumb and index finger and use the tip of your thumb and middle finger to notate the base. At the same time more the nool in a back and forth motion across the again sunface. After a couple of turns, do one last turn with the nod next to the plate's edge. Alternatively, place the plate so a notating platform and spread the incoular.

2) Remove the Hod from the place and replace the lid.
2) Return the Hod to the alwhol in preparation for the next too culation. There is no need to frame it again.

Incubate the plate in an invented position at the appropriate temperature for the assigned type time.

Observation and Result :

After incubation observes the colonies on the agan plate. Some of the colonies will be free from each other. Select any colony from the plate and record the elevation, pigmentation and size.