DATE: 17/08/2022 EXPERIMENT NO: 1.1.

QUADRANT STREAKING

<u>AIM:</u>

To perform quadrant streak method for isolation of pure cultures.

PRINCIPLE:

The techniques commonly used for isolation by discrete colonies initially require that the number of organism in the inoculum be reduced. The resulting diminution of the following inoculation, individual cells will be sufficiently for on apart on the surface of the agar medium to separate the different species. The following are the techniques that can be used to accomplish the necessary pure culture isolation. The steel plate is a rapid qualitative isolation method. It is essentially a dilution that spreading a bopt of culture over the surface of the agar plate.

The sample or the inoculum is till the boo streaking it lurface of agar plates. While streaking in successive it a of plates, the inoculum is diluted into the point where there is only on thatterial cells deposited area few millimeters on the surface of the agar plates. When these lone bacterial cells divide and give rise to thousands and thousands of new bacterial cells, an isolated colony is formed . Pure cultures can be obtained by picking well isolated colonies and restreaking these on fresh agar plates.

MATERIALS REQUIRED:

- A source of bacterial (Stock culture, previously streaked agar plate or any other inoculum)
- Inoculation loop
- Bunsen burner
- Nutrient agar
- Petri plates
- Conical flask
- Distilled water
- 70% Ethanol