# Lect. 2 Questions

### Microbiological culture media preparation & Sterilization technique

1. Write down the name, formula and purpose of the culture media your group is preparing in the lab.

**Observation table**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.**  **No.** | **Name of culture**  **media** | **Formula** | **Uses** |
|  |  |  |  |
|  |  |  |  |

1. Show the calculation of media preparation (100 ml)

### Lect. 2: Answer the following questions

Q 2.1 What is the three main types (in terms of their physical forms) of microbiological culture media?

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Q 2.2 Why are culture media sterilized before use?

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Q 2.3 what are the three ways for sterilizing culture media and supplies.

# Lect. 3 Questions

### Isolation of normal microbiota from the human body

The microorganisms that constitute the **normal microbiota** of the human body are usually harmless, although some are potential pathogens or opportunists.

These latter microorganisms may cause disease under certain circumstances.

**Procedure:**

* 1. Choose two areas of the skin that differ in terms of moisture and degree of exposure to the outside environment.
  2. Swab these areas and isolate microorganisms from each site by streaking onto nutrient agar plates. (The swabs can be moistened with sterile water).
  3. Label the plate with your name, body site, date, and type of medium.
  4. Incubate the plate, inverted, at 35°C for 24 to 72 hours.

Observe the agar plate after 24 to 72 hours. Select any three different isolated colonies, and describe their appearance.

Attach a picture of the result (agar plate).

**Observations**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Colony 1** | **Colony 2** | **Colony 3** |
| **Type of Colony**  **(Fungi or Bacteria)** |  |  |  |
| **Numbers of**  **colonies with similar morphology** |  |  |  |
| **Colony shape** |  |  |  |
| **Colony surface** |  |  |  |
| **Colony pigmentation** |  |  |  |

### Lect. 3: Answer the following questions

Q 3.1. When doing a skin culture, why is the swab first moistened with saline?

Q 3.2. Define indigenous flora of the body.