

FACULTY OF ENGINEERING & TECHNOLOGY



Aseptic conditions

- Plant material, nutrient medium, equipments and culture room should be free from contamination.
- Surface sterilization of plant materials should be done to stop the growth of microbes.
- The most common contaminants in culture are fungi and bacteria.



Sterilization room

• For sterilization of nutrient media, glasswares, scissors, scalp etc., separate sterilization room is desirable.





Nutrient medium

Defined medium for the growth of plant cell cultures is consist of:

- 1. Inorganic nutrients: includes macro and micro nutreints
- 2. Organic nutrients: includes vitamins, carbon sources, amino acids and growth regulators or hormones
- 3. Other media substances: like protein hydrolysates, solidifying agents and antibiotics.





Transfer Room

 Provided with laminar flow cabinet for transferring and subsequent subculturing.

Culture room or incubators

 Provided with shelves and incubators with specific conditions of proper temperature, light and aeration.





