

High Yield Hints – Tools and Techniques -TISSUE CULTURE

1. Tissue culture is also called as “ invitro culture “.
2. Tissue culture medium uses **Agar** as the base material.
3. Common macro elements used are **Ca, Fe, K, Mg, Na** and micro elements are **Al, Co, Cu, Fe, B, Mn, Zn, Mo, Cl**.
4. Carbon source in the tissue culture medium will be **Sucrose** and rarely **Glucose or Mannitol**.
5. **Phytohormones** used are **IAA, NAA and Kinetin**.
6. **Vitamins** are **Nicotinic acid and Pyridoxine**.
7. **Enzymes** used in Protoplast fusion are **Onozuka –R 10 and Mecerozyme**.
8. **Poly ethylene Glycol or PEG** is the **inducing agent** in somatic hybridization.
9. Somatic embryogenesis depends on the **balance** between **Auxin and Nitrogen source**. Such factors are called as **Epigenetic factors**.
10. **Organ culture** is helpful to protect **rare plants from extinction**.
11. **Monoclonal antibodies** are only one type of antibody for a specific antigen generated by **Hybridoma technology**.
12. **Monoclonal antibodies** are called as “ **Magic Bullets** “ because they are used in Chemotherapy to give drug to the target cancer cells.
13. **Polyclonal antibodies** contain different types of antibodies generated by vaccinating an animal like sheep or Mice.