<u>Name</u>:
<u>Topic</u>: Preparation of 1 L of Tissue Culture medium

- 1. Weigh 6.5 g of agar and put it into 250 ml deionised or distilled water in SIMAX bottle, stir and melt it in autoclave.
- 2. Put 500 ml of deionised or distilled water into an Erlenmeyer bottle.
- 3. Add the appropriate amount of the macro elements stocks (100 ml), micro elements stocks (10 ml) and chelated iron stock (5 ml).
- 4. Add the vitamins (1 ml freeze concentrate).
- 5. Weigh 100 mg of inositol.
- 6. Weigh 20 g of sucrose.
- 7. Add plant growth regulators and other components like charcoal, if necessary.
- 8. Adjust the pH using 0.1 M KOH or 0.1 M HCl to 5.7.
- 9. Add melted agar; adjust the final volume to 1L with warmed distilled water.
- 10. Thoroughly mix and distribute the medium into the tissue culture vessels (40 ml into each vessel).
- 11. Cap the vessels.
- 12. Autoclave for 20 min at 121°C. If a large quantity is being autoclaved, longer times may be necessary.
- 13. For short-term storage keep media at room temperature, for prolonged storage keep media in the refrigerator.

Note:

In case when we use commercial mixture for medium preparation we use amount of those mixtures according to producer information.