



PATNA WOMEN'S COLLEGE

Autonomous

PATNA UNIVERSITY

3rd Cycle NAAC Accredited at 'A' Grade with CGPA 3.58/4

'College with Potential for Excellence' (CPE) status accorded by UGC

POLICY ON BIO-ETHICS

The policy on Bio-Ethics provides a broad framework of regulations and guidelines that bear on ethical aspects of Biological research and development works undertaken by the teachers and students at Patna Women's College.

1. SAFE AND EFFECTIVE WAY OF DISPOSING MICROBIAL CULTURES

- **SEGREGATION AND IDENTIFICATION**

All microbial cultures that are no longer required must be segregated from other laboratory waste and clearly identified with labels indicating the name of the microorganisms and the date of disposal.

- **PACKAGING THE CULTURE PLATES AND GLASSWARES**

The plates and tubes containing the culture must be carefully packed in discard bags or wrapped in paper before placing in the autoclave for discard.

- **DECONTAMINATING AND DISCARDING**

After wrapping and packing glasswares and culture plates, they must be placed in the autoclave and after checking the appropriate water level, it should be autoclaved at 121 °C and 15 lbs pressure for 30 minutes.

- **WASHING THE GLASSWARES**

Drain the contents of the tubes/flasks/plates/beakers into the sink under running tap water.

Soak the empty test tubes, petri-plates, flasks for 1 hour in 2.0% Savlon solution.

Wash thoroughly with 0.1 % Labolene solution and rinse with tap water. Finally rinse with purified water.

- **DRYING THE GLASSWARES**

After rinsing thoroughly, the glass wares should be dried in hot air oven before use at 180 °C for 1 hour.

Note:

- Use of protective aprons, gloves and nose masks is essential while handling materials that has been sterilized for dispose.
- Run an empty Autoclave sterilization cycle at 15 lbs for 15 minutes after sterilization of used cultures.
- Record the disposal of microbialculture media as Discarding in the record.
- Handle autoclave carefully.
- Take out the glasswares out of the autoclave with hand gloves on.
- Stay at a little distance while opening the autoclave after discarding.



Handwritten signature/initials.

2. SAFETY MEASURES IN LABORATORIES

- All the materials should be labeled with names, date, and any other applicable information
- Dispose culture waste by discarding, following the SOP of disposal
- Glass wares should be washed with soap and water, then rinsed with distilled water.
- Flame transfer loops, wires, or needles before and immediately after use to transfer culture.
- Be careful around Bunsen burners.
- Any chemical or biological fluids spillage must be immediately reported to the course instructor.
- Always wipe and clean the lenses of the microscope before putting it away. Use the appropriate tissue paper and cleaning solution for this purpose.
- Work benches must be disinfected before and after use, using the provided solutions (70 % Ethanol).
- No Food or drinks are permitted in the laboratory at any time.
- Keep hands and other objects away from face, nose, eyes, ears, and mouth.
- Work areas/surfaces must be disinfected before and after use.
- Protective masks must be worn in the laboratory
- Hairs should be secured and tied properly.
- Hands must be washed and disinfected before leaving the laboratory.
- No unnecessary items should be kept on the work countertop.

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