

LAB SAFETY PROTOCOLS

Always listen carefully to any instructions and warnings from your teacher.

Before your Lab Experiment

1. Keep coat and bags out of the lab station.
2. DO NOT wear sandals or open toed shoes.
3. Tie back long hair, wear lab coat over loose clothing, remove jewelry and rings.

During your Lab Experiment

1. Think before you act.
2. Concentrate on what you are doing.
3. If an accident happens, keep calm and ALWAYS inform your teacher immediately if an accident occurs.
4. ALWAYS stand when doing lab work. You can move away quickly in the event of an accident.

Dealing with Substances

When using our kits, you will be interacting with substances to complete your projects. While our kits are safe to use, there are some important points you need to remember:

1. ALWAYS wear protective equipment to prevent any injury.
2. Check the label and make sure it is the correct one before using it.
3. ALWAYS keep your workstation clean and clean any spills or accidents safely.
4. NEVER taste anything unless instructed. NEVER bring any food or drinks to the lab.
5. NEVER stick your nose close to any of the microplates. Keep your eyes at a safe distance.
6. Handle ALL substances with care.
7. ALWAYS clean up and put things away after finishing your lab experiment.
8. ALWAYS wash your hands before and after working in a lab.

Microorganisms

Some of our kits will involve the use of microorganisms. While they have many uses in science, safety is VERY important. Be sure you are familiar with the handling, storage, and disposal techniques.



Glassware

- ✓ ALWAYS put broken glass into the waste glass container. This will prevent cuts to custodians and others who empty.
- ✓ Clean all glassware immediately after use
- ✓ Carry all glassware vertically and safely

Fridge Use

EBPI's High School Biotechnology kits can be stored in the fridge if not used. DO NOT use the same fridge to store any food or drink.



READ all written instructions in advance !



If you are not sure what to do, ASK first !



Eye Safety

ALWAYS wear eye protection when told and keep a safe distance from the microplates.



Do the following IMMEDIATELY if any substance gets in your eye:

1. Call the teacher.
2. Move (or help the injured move) to the nearest eyewash station.
3. Flush both eyes with a gentle flow of water for at least 15 minutes.
4. Seek further medical attention.



Please contact us if you have any further safety questions or concerns

High School Biotechnology Kits Safety Protocols

Please feel free to contact us if you have any further questions or concerns about the use of our kits.

Muta-Lab™ Bacterial Testing Educational Kit



Stream:



Storage:

- All kit components can be stored at room temperature
- The main materials should be stored under refrigeration (2°C to 8°C)
- Protect from high temperatures and temperature changes
- If you plan to store the kit for a long period of time, keep the bacteria frozen
- Store the microplates in a dry, dark location at room temperature
- Note improper storage may result in instant colour change

Handling:

- Note that the bacterial strains used in the assay are non-pathogenic laboratory strains, it is advised that good laboratory practice be used.
- Sterilization of the bacteria either in an autoclave or a bleach bath is recommended after use.
- E.coli WP2 strain requires containment biosafety level 1 handling
- The LacZ E.coli Strains used in the kit are considered Bio-Safety Level 1 handling.

Muta-Lab™ Synthetic Testing Education Kit



Stream:



Storage:

- All kit components can be stored at room temperature.
- Store the Reaction Mixture in a dark place as the purple dye used is light sensitive.
- Store the 96-well microplates in a dry, dark location at room temperature to ensure optimum test performance (improper storage may result in an instantaneous colour change as opposed to a gradual colour change).

Handling:

- The simulated reaction mixture contains a purple dye, bromocresol purple, which may cause slight staining of skin as well as clothing. All other reagents are a sodium bicarbonate buffer solution.
- It is important to use the Dilution Buffer provided, as it is a buffer solution and cannot be replaced by distilled or tap water

Toxi-Lab™ Bacterial Testing Educational Kit



Stream:



Storage:

- All kit components can be stored at room temperature
- The main materials should be stored under refrigeration (2°C to 8°C)
- Protect from high temperatures and temperature changes
- If you plan to store the kit for a long period of time, keep the bacteria frozen
- Store the microplates in a dry, dark location at room temperature
- Note improper storage may result in instant colour change

Handling:

- Note that the bacterial strains used in the assay non-pathogenic laboratory strains, it is advised that good laboratory practice be used.
- Sterilization of the bacteria either in an autoclave or a bleach bath is recommended after use.

Toxi-Lab™ Synthetic Testing Education Kit



Stream:



Storage:

- All kit components can be stored at room temperature.
- The chromogen is light sensitive and is provided in a dark bottle.
- Store the 96-well microplates in a dry, dark location at room temperature to ensure optimum test performance (improper storage may result in an instantaneous colour change as opposed to a gradual colour change).

Handling:

- The simulated reaction mixture with bacteria contains ammonium hydroxide. Appropriate safety precautions should be taken (eye protection and gloves).
- Keep container tightly sealed in a dry and well-ventilated place. This reagent is a single-use reagent.
- Once opened and used for this experiment, this reagent should be disposed of according to appropriate legal requirements.

High School Biotechnology Kits Safety Protocols

Please feel free to contact us if you have any further questions or concerns about the use of our kits.

Coli-Lab™ E.coli Testing Educational Kit



Stream:



Storage:

- All kit components should be stored in the sealed packaging provided.
- Ensure the storage area is dry and in temperatures ranging from 2°C to 30°C.
- Keep the kit away from light.
- In humid climates, it is recommended that Coli-Lab are stored in a refrigerator.

Handling:

- Though no bacteria is include in the kit, other bacteria and other living organisms may be contained in the water samples that are collected.
- The test is designed to support the growth of microorganisms in the sample waters; this may include pathogens.
- Hands should be thoroughly washed after handling exposed Coli-Lab.

Sedi-Lab™ Bacterial Testing Educational Kit



Stream:



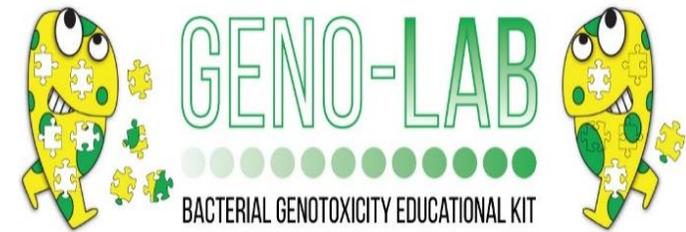
Storage:

- The main materials should be stored under refrigeration (2°C to 8°C).
- The Sedi-Lab bacteria should be stored in -20°C until use.
- Under conditions of proper storage, the shelf life of the Sedi-Lab kit is up to a year.

Handling:

- Handle the kit and tested samples like any potentially hazardous material.
- Note that the bacterial strain is not a known pathogen.
- The E.coli bacterial strain included in the kit are considered a bio-safety level 1 handling strain.
- It is advisable and good laboratory practice to sterilize the remains of the kit before disposal (use biohazard bag).

Geno-Lab™ Genotoxicity Testing Educational Kit



Stream:



Storage:

- The kit components should be stored under refrigeration (2°C to 8°C) or in a freezer (-4°C to -20°C) in total darkness if possible.
- If there is repeated freeze-thaw sequences and prolonged light exposure, the 4-NQO will degrade and affect the results.

Handling:

- Handle the kit and tested samples like any potentially hazardous material.
- Aseptic techniques should be employed when rehydrating the lyophilized bacteria.
- Note that the bacterial strain is not a known pathogen.