

Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Zul Norin

Title of Project Controlling Coliform Contaminated Water through Mycofiltration

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist:
(All questions must be answered; additional page(s) may be attached.)

1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).

Escherichia coli K12 (#155065) will be purchased from Carolina Science. 10% Bleach and 70% Alcohol will be used for sterilization and/or decontamination.

2. Identify and assess the risks involved in this project.

Contamination of unknown microbes in media and/or cultures.

3. Describe the safety precautions and procedures that will be used to reduce the risks.

All experiments will be performed at the microbiology lab bench within the science research laboratory at the high school. It is a BSL-1 Lab. Student researcher will be trained in microbiology techniques and safety procedures. Student will wear protective goggles, lab coat, and disposable gloves. All experiments will be directly supervised by the teacher.

4. Describe the disposal procedures that will be used (when applicable).

Surface decontamination will be done by flame sterilization, or use of 10% bleach. All used materials will be given to the research teacher, put into autoclave bags, and then autoclaved by the teacher.

5. List the source(s) of safety information.

American Type Culture Collection: atcc.org, microbiology online:
<https://microbiologyonline.org/teachers/safety-information/good-microbiological-laboratory-practice>

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):

I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and will provide direct supervision.

Michael Vaccariello, PhD

Designated Supervisor's Printed Name

Signature

09/05/19

Date of Review (mm/dd/yy)

Science Research Teacher/ Sachem High School East

Position & Institution

mikevac67@gmail.com

Phone or email contact information

Microbiology coursework, and microbiology work in biomedical laboratories(10 yrs), and mentoring microbiology projects in the high school laboratory (18 yrs).

Experience/Training as relates to the student's area of research