



Standard Operating Procedure

Diethyl Pyrocarboate

Print a copy and insert into your *Lab-Specific Chemical Hygiene Plan*.

Section 1 – Lab-Specific Information

Building/Room(s) covered by this SOP: INV-231

Unit or department: Biological Sciences

Principal Investigator Name: Jesse Zaneveld

Principal Investigator Signature/Date:

This SOP was created by (if not PI): PI

Name/Title/Date/Signature: NA

Section 2 – Definitions and Hazards

RNA Later has the following known hazards:

Moderately toxic if swallowed

Irritant

Section 3 – Engineering and Personal Protective Equipment (PPE)

Engineering Controls: store in Zaneveld lab chemical drawer (where it won't fall or be knocked over easily)

Hygiene Measures: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the chemical.

Hand Protection: Chemical-resistant gloves must be worn, nitrile gloves are recommended for low volume applications.

Eye Protection: ANSI-approved properly fitting safety glasses or chemical splash goggles are required. *Safety glasses are available on shelf SG3*

Skin and Body Protection: Laboratory coats must be worn and be appropriately sized for the individual and buttoned to their full length. Full length pants and close-toed shoes must be worn at all times by all individuals that are occupying the laboratory area. The area of skin between the shoe and ankle must not be exposed.



Section 4 – Special Handling and Storage Requirements

- DEPC has the following hazards (from the SDS)

Moderately toxic if swallowed

Irritant

- Wear appropriate PPE (nitrile gloves, disposable lab coat) when using.
- Store in our chemical cabinet (not the flammables one). Contact PI immediately if things won't fit.

Section 5 – Spill and Accident Procedures

If skin is exposed, remove contaminated clothing, wash with soap and water. If eye is exposed, call 911 as soon as possible and flush eyes for 15 minutes in the eye wash.

In case of a major spill during normal business hours (Monday – Friday, 8 AM – 5 PM), call EH&S at 206.543.0467 for further assistance. If it is safe to clean up the spill, wear PPE listed above. Double bag and securely fasten spill materials. Label as hazardous waste. Label bags as hazardous waste.

If usual circumstances make any of the above hazardous and it is after hours, call 911 for further assistance. If there is an imminent threat of a fire, pull the nearest fire alarm station to evacuate the building and **dial 911**.

Report the spill via the EH&S Online Accident Reporting System (OARS).

Section 6 – Waste Disposal Procedures

Store hazardous waste in closed containers that are properly labeled, and in a designated area. Do not pour down drain. Request chemical waste collection via the EH&S website.

Section 7 – Protocol


RNA Later is typically used in the lab to preserve coral samples for later 16S rRNA sequencing or genome sequencing.

Section 8 – Documentation of Training

Prior to conducting any work with flammable liquids, the Principal Investigator must ensure that all laboratory personnel receive training on the content of this SOP.

I have read and understand the content of this SOP:



Name	Signature	Date
Jesse Zaneveld		12/19/24