**STANDARD OPERATING PROCEDURE**

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| **Principle Investigator:** | **Date Created:** 11/28/14 |
| **Lab Location:** St. John 151 | **Approved by:** |
| **Prepared By:** Avalon Coley | **Signature:** |

**1 M Tris pH 8.0**

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| **Section 1: Risk Assessment**  *Potentially hazardous processes that will be performed* |

 Autoclaving

 Sharps Use: Pipet Tips

 Hazardous Chemicals: Hydrochloric acid (HCL), Tris

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| **Section 2: Signs and Symptoms of Illness or Disease**  *Description of the signs and symptoms of illness for each pathogen and/or hazardous chemical* |

**HCL: Acute toxicity, corrosive, irritant**

· Skin irritation: corrosive to human skin

· Irreversible damage to lungs, eyes, and internal organs

**Tris: Low hazard**

· Prolonged skin contact may cause irritation

· Inhalation may cause respiratory tract irritation

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| **Section 3: Routes of Transmission**  *Description of the signs and symptoms of illness for each pathogen and/or hazardous chemical* |

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 Inhalation (aerosols)

 Ingestion

 Muscous membrane exposure (splashing)

 Percutaneous (i.e. Needle punction / cuts

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| **Section 4: Identification of Other Risks and Potential Hazards** |

· Splashing and burn hazards associated with autoclaving (See SOP L2)

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| **Section 5: Required Personal Protective Equipment** |

 Gloves: ­­­­­­Latex

 Eye Protection: Safety glasses with side shields or goggles

 Lab Coat: Flame-retardant

 Autoclave gloves

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| **Section 6: Engineering Controls**  *Description of the engineering controls that will be used to prevent or reduce the likelihood of exposure to the hazards.* |

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| **Section 7: Biological Spill Response and Lab Accident Response Procedures**  *Procedures for cleanup of spills and accidental releases* |

**Location of:**

**Eye Wash:** left down the hall out the lab door

**First Aid Kit:** Shelf directly left of the main exit from the lab

**Fire Extinguisher:** Mounted on the wall directly right of the main exit from the lab

**Spill Kit:** Shelf directly left of the main exit from the lab

**Emergency Shower:** hallway outside the lab to the left

**Procedure for Spill Clean Up and accidental releases:** Refer to SOP L3: “Spill Clean-Up”

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| **Section 8: Decontamination Procedures**  *Procedures that will be used to decontaminate lab equipment, glassware and clothing.* |

· **TBD - check with EHSO**

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| **Section 9: Waste Generation and Disposal Procedures**  *Description of how all biological and chemical wastes will be disposed of including sharps.* |

**· TBD – check with EHSO**

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| **Section 10: Protocol** |

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| **Protocol Title:** 1 M Tris pH 8.0 | **Page 1 of 1** |
| **SOP No.** | **Date:** 11/28/14 |
| **Object:** To make 1 M Tris pH 8.0 | |
| **Required Reagents:**   * Tris * HCL * H2O   **Required Supplies:**   * Glass 25mL pipette and automatic pipette * Weigh boat * Scoop * 2 x 1L bottles   **Required Equipment:**   * Autoclave | |
| **Procedure:**   1. Dissolve 121.1 g of Tris base in 800 ml of H2O. 2. Adjust pH to 8.0 by adding 42 ml of concentrated HCL in the fume hood with a glass pipette. 3. Allow the solution to cool to room temperature before making the final adjustments to the pH. 4. Adjust the volume to 1 L with H20. 5. Split in to two bottles to autoclave so that it doesn’t overflow. 6. ONLY autoclave if you have been fully trained on how to do so. | |

**STAFF ACKNOWLEDGEMENT**

I have read and understand the SOP and agree to adhere to the requirements listed

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| Name | Date | Signature |
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