

Name	Outreach activities	Managed (Current) Rating	Target (Residual) Rating
		Low	Low
Location	St Lucia (01)		
Location Category	Facility - Laboratory		
	Business Unit	Last Review Date	Risk Owner
Environment		23/08/2024	Daniel Chew
Risk Assessment Team		Risk Ap	oprover
Additional Notes		Chiam Ang	
	Additional Notes		
	Describe task / use		
General risk asse	essment for outreach activities conducted by Dr Gurion Ang and team.		



Date Printed: Tuesday, 3 September 2024

Risk Factors

Risk Factor	Chemical/Toxins/Poisons/Gases	
Description		
Students will learn how to use mic	ropipettes with food dye in 1% glycerol.	 Absorption/skin mucosa No Accumulative effects No Carcinogen No Chemical splash/spill No Corrosive substance No Compressed gas No Cryogenic substance No Cryogenic substance No Dangerous when wet No Explosives/explosive atmosphere No Flammable liquid No Flammable solid No Incompatible with other chemicals No Ingestion No Inhalation No Needle stick or sharps injury Yes Oxidiser No Sensitising agent No Serious irreversible affects No Spontaneously combustible No Storage hazard No Toxic substance/toxin No



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LowLowExisting ControlsProposed Controls• 5 - Administration:
Used tips are to be disposed in a sharps bin.
• 6 - PPE:
Gloves must be worn.Froposed Controls



Risk Factor	Chemical/Toxins/Poisons/Gases	
Description		
70% ethanol is used a disinfecting a precipitating agent for DNA extraction	gent during microbiological teaching. It is also used a in.	 Absorption/skin mucosa No Accumulative effects No Carcinogen No Chemical splash/spill No Corrosive substance No Compressed gas No Cryogenic substance No Dangerous when wet No Dangerous when wet No Explosives/explosive atmosphere No Flammable liquid Yes Flammable solid No Incompatible with other chemicals No Ingestion Yes Inhalation Yes Needle stick or sharps injury No Oxidiser No Sensitising agent No Serious irreversible affects No Spontaneously combustible No Storage hazard No Toxic substance/toxin Yes



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CREATE CHANGE

Low	Low
Existing Controls	Proposed Controls
• 5 - Administration: Ethanol must not be handled by students until required.	
• 6 - PPE: Gloves must be worn.	



Risk Factor Chemical/Toxins/Poisons/Gases		
Description		
DNA extraction buffer is made up of table salt (sodium chloride), water and consumer-grade dishwashing detergent.	 Absorption/skin mucosa No Accumulative effects No Carcinogen No Chemical splash/spill No Corrosive substance No Compressed gas No Cryogenic substance No Dangerous when wet No Explosives/explosive atmosphere No Flammable liquid No Flammable solid No Harmful irritant Yes Incompatible with other chemicals No Ingestion Yes Needle stick or sharps injury No Oxidiser No Sensitising agent Yes Serious irreversible affects No Spontaneously combustible No Storage hazard No Toxic substance/toxin Yes 	



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LowLowExisting ControlsProposed Controls• 6 - PPE:
Gloves must be worn.• Control (Control (



CREATE CHANGE

Risk Factor Biological			
Description			
E. coli is used to teach techniques in microbiology, namely collecting bacteria from a bacterial lawn and spreading bacterial cultures on a plate to create distinct colonies. Students will also use micropipettes to learn how to extract bacterial and plasmid DNA.	 Allergic reaction to plant, animal or insect Yes Anaphylaxis No Animal - attack, scratch or bite No Biological particulates (e.g. mould, spores) No Biological waste Yes Food poisoning/contamination, poor food handling practices No Genetically Modified (GM) organism or microorganism Yes Human blood/body fluids/tissues No Infectious animal diseases (zoonose) No Infectious microorganisms/diseases Yes Lab animal allergy No Needle stick or sharps injury Yes Poison, toxin or venom from animal, insect or plant No Spill/splash No Transporting biological material No Unintentional release No 		



CREATE CHANGE

Risk Assessment [Ref Number: 35542] - Live

Low	Low
Existing Controls	Proposed Controls
 2 - Substitution: The E. coli used here is of the DH5a strain, which has been genetically modified to minimise infectivity and pathogenicity. 	
• 5 - Administration: Used tips are to be disposed in a sharps bin. Used loops and spreaders are disinfected with 70% ethanol and disposed in a sharps bin.	
• 6 - PPE: Gloves must be worn.	



Description		
Experience Ecology and IA2 data collection days. Students will participate in collection at specified sites around UQ St Lucia.	data Construction site No Damage to environment No Diving No Electrical No Electrical No Electrical No Extreme cold No Extreme heat No Extreme heat No Falling object No Fire No Hazards associated with working in confined spaces No Hazards associated with working in confined spaces No Inclement weather Yes Low oxygen atmosphere/asphyxiant/suffocation No Natural disaster No Noise - prolonged exposure No Noise - prolonged exposure No Noise - short sudden exposure No Risk of fire from ignition sources including laser use No Risk of fire from ignition sources including laser use No Sharp objects No Ship/trip/fall Yes Sunburn Yes Travel by vehicle No Trenches/excavations No Vacuum/implosion No Vacuum/implosion No Vacuum/implosion No Water - flood, tides, ingress No	



CREATE CHANGE

Risk Assessment [Ref Number: 35542] - Live

- Working alone and/or in isolation -- No
- Working/falling from heights -- No



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CREATE CHANGE

Low	Low
Existing Controls	Proposed Controls
• 5 - Administration: Plan for alternative activity in the event of inclement weather.	
 5 - Administration: At least one certified first-aider must be on site at all times. In the event of an emergency, UQ security must be notified. 	
• 6 - PPE: Covered shoes must be worn throughout the day. Appropriate sun protection (sunscreen, sunglasses and hat) must be worn.	



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Appendix **Risk Matrix Level** Task can proceed upon approval of the risk assessment by relevant Line Manager or supervisor is received. Low Medium Task can proceed upon approval of the risk assessment by relevant Line Manager or Supervisor is received. It is recommended that a plan is developed to reduce the risk within a reasonable timeframe. Task can only proceed in extraordinary circumstances and provided there is authorisation by relevant Head of Function and a plan is in place to High promptly reduce the risk to an acceptable level. Task must not proceed. Appropriate and prompt action must be taken to reduce the risk to an acceptable level. Extreme