



RISK ASSESSMENT – TASK BASED

IGEM 2016

Location: Room W301, Medical building	Building Number: 181	Date: February 2016	Assessed By: Amber Willems Jones	Health & Safety Representative: Vincé Kalangi
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Description of Activity:

4.9 Preparation of LB Broth

SWP No: 4.9

Is there past experience with the Activity that may assist in the risk assessment?

Incidents & Near-hits, Incident Investigations, Workplace Inspections, Training, Standards, Legislation & Codes, Uni Guidance Material, Existing Controls, Industry Standards.

NO

1. TASK	2. HAZARD	3. Estimated RAW RISK SCORE C x E x L	4. CONTROLS	5. Residual Risk Score RISK SCORE C E L C x E x L				6. Residual Risk
Autoclaving	Burns from steam and hot glass	15x6x1	Wear appropriate PPE, Ensure that all training has been undertaken	15	6	0.1	9	LOW
Weighing out tryptone	Inhalation of fine particulates	1x6x1	Wear appropriate PPE Use only in well ventilated areas	1	6	0.1	0.6	LOW
Weighing out Yeast extract	Inhalation of fine particulates	1x6x1	Wear appropriate PPE. Use only in well ventilated areas	1	6	0.1	0.6	LOW

	TOTAL	102		TOTAL	10.2	LOW
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Name & Signature of Laboratory Head/Supervisor or Delegate	Amber Willems Jones	Date	
Name & Signature of Person Performing Activity or Task		Date	

Number and Title	PRG# 4.9 Preparation of LB Broth
Name of Laboratory/Department	The University of Melbourne IGEM Team Laboratory, Department of Biochemistry
Author, Date Prepared & Date of Review	Author: Ella Bocquet-Gaylard Updated : February 2016, Date: 1/2/2016 Review by: February 2018
Introduction	This experimental protocol describes the procedure to make LB-Broth
Principles / Scope	LB-Broth is necessary for bacterial culture and must be made according to the protocol below. This will ensure sterility and will prevent contamination by unwanted microorganisms.
Risk Management	<i>Risk assessments have been prepared and are available attached to the SWP.</i> Raw Risk: Low Residual Risk: LOW
Safety Management	Hazards: Always wear appropriate personal protective equipment. When handling hot material always wear thermal-protective gloves. Risk Controls: Administrative, PPE
Licences / Permits	N/A
Training / Competency	All team members must be inducted into the use of any equipment used.
Equipment	Autoclave.
Protocol	Materials For 1 L LB Broth 10g Bacto tryptone (1.0% per L) 5g Bacto yeast extract (0.5% per L) 10g NaCl (1.0% per L) Note: Ensure sterile technique is used to prevent contamination. Weigh out necessary quantities of ingredients for 1L or the designated volume. Pour into an appropriately sized vessel Add appropriate amount of Ultra Pure water and mix until suspended Autoclave for 15 mins at 121 °C.
Controls / Calibration	N/A
Waste Disposal	<u>Disposal requirements:</u> Follow PC II guidelines for handling, cleaning and when necessary, disposal of bacterial culture and solid wastes.
Emergency Procedures	First aid measures Eye contact: Immediately flush eyes with plenty of water Skin contact: In case of contact, immediately flush skin with plenty of water. Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious

	person. Call medical doctor or poison control centre immediately 13 11 26.
References	Not applicable
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