

University of Melbourne iGEM 2014 Lab Procedure

Procedure	Name: A3 Making LB Agar Plates					
	Version:	2				
	Description:	How to make LB agar plates				
	Trigger:	Use this procedure when agar plates are required for bacterial growth				
Last updated	Name:	Robyn		Date:	4/9/14	
You will need	Time:	30 minutes		l .		
	PPE:	Gloves Lab coat				
	Equipment:	Microwave Bunsen Burner Sterile Petri Dishes Sterile measuring bottle/flask/tube				
	Materials:	S: LB Agar Antibiotics (dependant on plasmid): (CL) Chloramphenicol for pSB (KA) Kanmycin for pMK (Amp) Ampicillin for pGEX				
Step 1	The LB agar (stored in minibar fridge) should a solid gel in a glass bottle.					
	Completely melt the LB agar in a microwave in its glass bottle – this will take several minutes					
	and you will need to stop occasionally and invert the bottle gently to mix while it melts.					
	SAFETY: Ensure that the lid of the glass bottle is loosened to let out any excess steam;					
	AND be careful when handling – the bottle will become					
	AND do not walk away while microwaving – you need to keep an eye on it to stop it if					
	it threatens to boil over.					
Step 2	Allow the medium to cool slightly at room temperature until the bottle is cool enough to be					
	held without burning.					
Step 3	Measure out the amount of agar required into a lidded measuring container					
	NOTE: You will need about 20ml per plate, plus up to 50ml extra for pouring error					
Step 4	Add 1µl of antibiotic per 1ml of agar and invert gently to mix					
	NOTE: The antibiotic required will vary for the plasmid you wish to grow on the plate (see					
	materials section)					
Step 5	Close to a flame, pour the medium into sterile petri dishes until the dishes are half full.					
	Use sterile technique and ensure that the dishes are open for a minimal amount of time.					
Step 6	Allow the plates to set at room temperature. Once the plates are set and have reached room					
	temperature they may be used or stored.					

Step 7	Allow an excess LB agar to cool down to room temperature in its original bottle. Place the bottle back in the bar fridge for storage.	
Step 8	Label plates with the antibiotic name abbreviation, the date, and your initials. Eg. CL 4/9 RE	
Step 9	Store unused plates in the bar fridge.	
Version history	2. 4/9/14 Added steps for addition of antibiotics - Robyn 1. 16/07/14 Original version created - Elizabeth Brooks	