## ScienceBridge Tech Site Standard Operating Procedure

Title: Pouring LB Agar Plates SOP					
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Scope	For use by biotechnology students at a ScienceBridge Tech Site when LB agar plates are needed to maintain stock or complete kit orders.					
Objective	This SOP sets the procedural specifications for pouring LB plates.					
		1 sleeve	1 bottle			
(or ends up in	<ol> <li>1. 1 sleeve 60 mm Petri dishes (20 plates).</li> <li>2. Autoclaved LB Agar Bottle</li> </ol>	1	3-5 1			
	<ul><li>3. Lab tape (white)</li><li>4. Gloves.</li></ul>	3 inches 1 pair				
Equipment	<ol> <li>Laminar Flow Hood or Other Sterile Counter</li> <li>Fine Black sharpie.</li> <li>10% Bleach/ 70% isopropyl</li> </ol>	1 1 1				
Supplemental Aids	<ul> <li>Teacher Spreadsheet</li> <li>Pouring LB Agar plates SOP</li> <li>QC &amp; Packaging LB Agar Plates SOP</li> <li>Site Prepping Autoclave for Solutions SOP</li> <li>Media Tracking Sheet</li> <li>Making Solutions Tracking Sheet</li> </ul>					
Safety	<ul> <li>Use laminar flow hood or sterile countertop for sterile technique</li> <li>Must wear gloves and use sterile technique by disinfecting workspace using 10% bleach/70% isopropyl alcohol with dH<sub>2</sub>O</li> <li>Clam shell plates when pouring to prevent plate contamination.</li> <li>Wear gloves when holding the autoclave bottle.</li> <li>Be sure bottle is cool enough to hold before pouring plates</li> </ul>					
Quantity	<ul> <li>Plates needed per teacher: # of kits ordered x ½ sleeve + ½ sleeve</li> <li>Calculate total plates needed for order date: add up all teachers</li> <li>Needs to be recorded on spreadsheet for LB Plates</li> <li>750 mL of LB is ~3-5 sleeves</li> </ul>					
Procedure  Procedure  Procedure  Pouring Plates  1. Sterilize laminar flow hood/ counter using 10% bleach or 70% isopropyl alcohol. If using a laminar flow hood, sterilize according to Laminar Flow Hood SOP.  2. Create about up to 3 sections (based on number of bottles made) in laminar flow hood/ on counter for using lab tape to demarcate each section.						

	<ol> <li>Label each section with LB [Bottle Letter] [date] [initials].</li> <li>Open plate sleeves by cutting a slit under the larger seal flap so that packaging later will be easier.</li> <li>Remove plates and group in 5's to make counting and pouring easier.</li> <li>QC: Check that autoclaved LB agar bottle has cooled enough to hold with a gloved hand before pouring to ensure plates do not crack.</li> <li>Clamshell lids and carefully pour LB agar solution into plates until they are about 1/3 to 1/2 full.         <ol> <li>Optional: pour solution into an autoclaved flask from the bottle for easier pouring. Follow the Autoclaving Glassware SOP to prepare flasks if needed.</li> <li>When finished with a stack of 5, slide plates aside (DO NOT PICK UP) so they can solidify.</li> <li>Plates should be left at room temperature overnight.</li> <li>Wash bottles and flasks in sink using regular faucet water. If agar solution has solidified in the bottle, use 10% soap solution and dH2O and hang on drying rack to dry (MUST HAVE dH2O FINAL RINSE)</li> </ol> </li> </ol>
Documentation	<ul> <li>All work and any variance from the protocol must be documented</li> <li>Always document in the communication logs</li> <li>Bottles should be labeled with Solution Tracking # and bottle letter</li> <li>Complete Making Solutions Tracking Sheet - &amp; keep with bottle(s)</li> </ul>
Storage	Always start with the oldest dates on supplies and complete partially finished or open bags first.  Product Storage  • Plates stored in/on sterile laminar flow hood or counter at room
	<ul> <li>temperature.</li> <li>Supplies Storage Locations</li> <li>Plates are found in the Media Specialist Storage area, have to ask the instructor for site location.</li> </ul>
Quality Control	•
Reagent Label Sticker	•
When	<ul> <li>All plates must be finalized AT LEAST 1 WEEK <u>BEFORE</u> order date</li> <li>Immediately complete calculations and Media Tracking Sheet</li> <li>Determine how many plates to pour EACH WEEK to meet deadline</li> <li>Should always have a minimum of 4 sleeves in the fridge at all times.</li> </ul>
Tech Site Group/ Kit	Media Specialist; Bacterial Transformation