ScienceBridge Tech Site Standard Operating Procedure

Title: How to Make a Reagent Sticker SOP					
Original Issue Date: 5/7/25		Revision Date:		Pages: 4	
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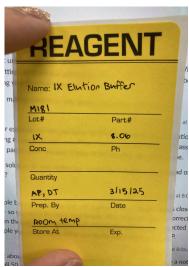
For use by biotechnology students at Mira Mesa High School when					
completing an enzyme and/or ocean acidification SOP that requires					
This SOP sets the procedural specifications for how to fill out a regent					
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		Bottle/	Outer		
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Making Solutions Tracking Sheet					
Media Batch Production Record					
Batch Production Record					
Batch Production Record SOP					
Be sure to read the SOP for any solution to check the relevant					
safety information of solutions being packaged and are in current					
use. Be sure safety information is added to reagent labels.					
Prepare 1 reagent sticker per completed					
aliquoted bag of solutions					
bottle of made solution or media					
sleeve of poured media					
	_				
stock solutions and for aliquoting solutions. Be sure to follow					
the correct protocol below					
How to label for new stock (Making solutions):					
1. Ensure required volume of solution is met for finished bottle, and					
closed solution is either written on tape and stuck to the bottle or					
written on the reagent sticker itself, for bottle.					
2. Obtain yellow reagent sticker (found in room next to fume					
hood) and ultra fine sharpie.					
	completing an enzyme and/or ocean acide the use of a reagent sticker  This SOP sets the procedural specification sticker and what information is expected  1. Solution Bottle or Bag of Aliquoted Solutions 2. Reagent sticker 1. Ultra Fine Sharpie 2. New solution or aliquoted reagent  SA Reagent Sticker Labeling video Finding solution tracking numbers vid Making Solutions Tracking Sheet Media Batch Production Record SOP Various Aliquoting/Making Solutions Be sure to read the SOP for any solut safety information of solutions being use. Be sure safety information is ad Prepare 1 reagent sticker per completed aliquoted bag of solutions bottle of made solution or media sleeve of poured media  Note there are different protocols for stock solutions and for aliquoting solutions and for aliquoting solutions and for aliquoting solutions is either written on to written on the reagent sticker itself,  2. Obtain yellow reagent sticker (found	completing an enzyme and/or ocean acidification S the use of a reagent sticker  This SOP sets the procedural specifications for how sticker and what information is expected to be on s  1 kit  1. Solution Bottle or Bag of Aliquoted Solutions 2. Reagent sticker 1. Ultra Fine Sharpie 2. New solution or aliquoted reagent 5 SA Reagent Sticker Labeling video Finding solution tracking numbers video Making Solutions Tracking Sheet Media Batch Production Record Batch Production Fecord Batch Production Record Batch	completing an enzyme and/or ocean acidification SOP that rethe use of a reagent sticker  This SOP sets the procedural specifications for how to fill out sticker and what information is expected to be on it.  1 kit  Bottle/Bag  1. Solution Bottle or Bag of Aliquoted - 1 Solutions 2. Reagent sticker - 1 1. Ultra Fine Sharpie 1 1 1 2. New solution or aliquoted reagent - varies  SA Reagent Sticker Labeling video Finding solution tracking numbers video Making Solutions Tracking Sheet Media Batch Production Record Batch Production Rec		

- 3. Under their respective sections, label the following using the information from your SOP and making solutions tracking sheet.
- a. Concentration followed by name of solution (including concentration both in name of solution and section for concentration)
- b. Date prepared
- c. Your initials/name
- d. Temperature for storage (e.g. 4°C for fridge, -20°C for freezer)
- e. Solution tracking number

If applicable, include the following additional information:

- i. Warnings/hazards (from Safety Data Sheet/SOP)
- ii. Special storage conditions (e.g. flammable)
- ii. Formula
- v. pH

On stock solutions, make sure to leave quantity blank to avoid confusion.



## Example: | about |

- 4. Apply 1 completed sticker to each bottle.
- Double check that sticker information matches the tracking sheet and that all information on the tracking sheet has been filled out and that solution has passed QC.
- 6. Place labeled solutions in the correct storage closed stock location.

## How to label for when aliquoting reagents and solutions (aliquoting stock):

- 1. Obtain solution, aliquot appropriate amount into the new container, and QC as specified in the SOP being used.
- 2. Obtain yellow reagent sticker (found in room next to fume hood) and ultra fine sharpie.

	<ol> <li>Under each field on new reagent sticker, copy exact information over from reagent sticker on previous container you took solution from with the following changes:         <ul> <li>Update the date to current aliquot date.</li> <li>Under quantity put the packaged amount. Note this should be per tube and per package. Example: 35 g salt/tube, 50 tubes</li> </ul> </li> <li>Place 1 new labeled reagent sticker in the upper right hand corner of each outer bag of the aliquoted solution or reagent.</li> <li>Double check that sticker information matches the batch production record and SOP and that all information on the tracking sheet has been filled out and that solution has passed QC.</li> <li>Place QC'd solutions in the correct ready for bagging location.</li> </ol>
	*Note that when aliquoting from 50 mL conical tubes, they should be labeled with name of solution, but also M# source for tracking purposes.
Documentati on	<ul> <li>Fill out Batch Production Record. Must be completed and approved by tech site teacher before you are officially finished.</li> <li>Solutions Tracking Sheet in Solutions and Aliquots binder</li> <li>If mistakes are made while labeling reagent sticker, get a new one and restart</li> <li>(who do you need to inform &amp; what information, include what document/tracking log to fill out)</li> </ul>
Storage	<ul> <li>Product Storage</li> <li>All completed jobs that required a regent sticker should go into their appropriate cabinet (ex: ocean acidification or enzymes)</li> <li>When done with reagent stickers, store back where originally found, in the back room</li> <li>Supplies Storage Locations</li> <li>All reagent stickers should be stored in the back room near the fume hood.</li> <li>Sharpies should be found on the front class counter</li> </ul>
Quality Control	<ul> <li>Fails QC:         <ul> <li>If information is not consistent after double checking new sticker with original (i.e. reagent sticker on aliquoted solution does not match reagent sticker on the stock solution), obtain a new sticker and fill out the information again.</li> <li>Can double check information on original making solutions tracking sheet if you have the M#</li> </ul> </li> </ul>
Reagent Label Sticker or other Identification Label	Reagent Label Must Include:  Concentration of the Solution (e.g. 1X, 10X)  Name of Solution (e.g. Elution buffer, L-DOPA)  Storage Temperature (room temperature, 37°C)  Date prepared

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	<ul> <li>Name/Initials of preparer</li> <li>Hazards and special storage if any, check with Safety Data Sheet for hazards, and list storage temperature or other conditions if necessary.</li> <li>Making Solution Tracking Number</li> </ul>	
	Closed or Open Stock	
When	Filled out when aliquoting solutions/chemicals and when transferring	
Wileii	larger volume of solutions into smaller containers	
Tech Site Kit:	Ocean Acidification, Enzymes, Bacterial Transformation, and Protein	
Group	Purification: Solutions and Aliquots	