ScienceBridge Tech Site Standard Operating Procedure

Title: Enzyme kit assembly					
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Scope	For use by biotechnology students at the Spackaging the ScienceBridge Enzyme kits			ites when		
Objective	This SOP sets the procedural specifications for packaging the Enzyme kits.					
		1 kit	50 kits	100 kits		
	 Assembled Enzyme Kit box Enzyme wet bag Pink 0.6mL microcentrifuge tubes labeled HCl, containing 100µL of HCl 	1 1 6	50 50 300	100 100 600		
	b) Blue 0.6mL microcentrifuge tubes labeled INH, containing 100µL of SB	6	300	600		
	 c) 15mL conical tubes labeled SDS and containing 10mL of 1% SDS 	1	50	100		
Materials	solution 3. Enzyme dry bag a) Weigh boats b) Coffee filters, cut into circles c) Small strips of pH paper d) Colorimetric charts e) pH color charts	1 10 10 12 10 3	50 500 500 600 500 150	100 1000 1000 1200 1000 300		
	4. Bag of grinding buffer a) 15mL conical tubes labeled GB and containing 5mL of grinding buffer	1 10	50 500	100 1000		
	 5. Bag of transfer pipets a) Disposable transfer pipets 6. Bag of glass test tubes a) Glass test tubes (12x75mm) 7. Enzyme Labels a) Sheet of GB/SUB/ENZ/CTRL/EXP 	1 40 1 30 1	50 2000 50 1500 50 50	100 4000 100 3000 100 100		
	labels b) ACID labels c) INH labels 9. 15mL conical tubes labeled L-DOPA, containing 10mL of L-DOPA and wrapped in aluminum foil - Store in freezer 10. Enzyme Kit Checklist	3 3 10	150 150 500	300 300 1000		

Equipment	N/A						
Protocol	Part I: Kit Box Preassembly (Prior to Pick Up Date) 1. Combine one Enzyme wet bag, one Enzyme dry bag, one bag of 10 GB tubes, one bag of 40 transfer pipets, one bag of 30 glass test tubes, one sheet of Enzyme Labels (GB/SUB/ENZ/CTRL/EXP, 3 ACID and 3 INH labels), into one kit box. 2. Place one printed Enzyme Kit Checklist into each box. 3. QC: Use the checklist to make sure that all room temperature contents are present and tubes are completely sealed 4. Immediately send boxes to Quality Assurance.						
	 Part II: Kit Box Preassembly of Temperature Sensitive Supplies If teacher ordered 1-3 kits: Fill out 1 teacher bag delivery sticker and affix to a gallon bag. If teacher ordered 4-5 kits: Fill out 2 teacher bag delivery stickers and affix to 2 gallon bags. Package 2 frozen and foiled groups of L-DOPA tubes (5 tubes/foil, 10 tubes/kit) per kit ordered into one of the labeled gallon bags. Check to be sure the foil completely covers the tubes and that the L-DOPA is clear/white (no brown coloration). QC: Recount the number of foiled groups and make there are 2 for every kit ordered on the delivery sticker. 						
	 Part III: Kit Box Assembly on Pick Up Date (Box 1/X) Place completed kits in alphabetical order (and box order #) in delivery pickup area. QC: Once all kits are finished make sure that all the boxes for each order are present and have been fully checked off on their check off sheet. 3. Arrange kit boxes by teacher, so that each teacher's order is grouped. 						
Documentation	 As you complete each item, initial the tracking sheet in the OF column Document updated status of each kit in the order fulfillment tracking log When complete Part I, fill out customer service tracking sheets When complete Part II, fill out customer service tracking sheets 						
Storage	 When complete Part II, fill out customer service tracking sheets Product Storage Completed and checked Part I kits should be passed to Quality Assurance. Completed and checked Part II kits should be stored in the freezer ready for pick up shelf. Supplies Storage Locations Use supplies in Enzyme Storage Cabinet boxes labeled "Ready for Bagging" Enzyme Labels stored in "Enzyme Kit Investigation Labels Ready for Kits" box in Enzyme Storage Cabinet L-DOPA is in the Tech Site Supply freezer on the "Ready for Baggin shelves. 						

Safety	Take care to ensure that liquid-filled tubes do not open during handling	
Quantity	Prepare 1 box per kit ordered, plus maintain a surplus stock of 10	
Quality Control	 Part I Fails QC: Replace, add, or remove any parts that are incorrect Part II Fails QC: Replace, add, or remove any parts that are incorrect Make sure that L-DOPA stays frozen and completely wrapped in foil. Use the Enzyme Kit Checklist as a guide when packing the boxes. 	
When	 Part I: Done as soon as the delivery date becomes active or do next delivery date if current one is completed Part II: Determine who will be present on the pick-up date ASAP (at least 1 group member needs to attend) to complete on the pick-up day. 	
Tech Site Kit/Group:	Enzyme: Order Fulfillment	