PACKING LIST Lab 4 & 5 common items

The amounts listed will suffice for teachers doing	either or both labs 4 & 5.
TEACHER	Number of Students
Ver. A	Ver. B

ITEM	# per section '	Total # of Sections	PKD ° Ret.	
Test tubes racks (1/3 cut)	16 (reused)	16		
Pipette pumps 10ml	16 (reused)	16		
Combs for gels	16 (reused)	16		
Plastic blocks (duplo's)	16 (reused)	16		
Thermometers (blue band)	3 (reused)	3		
Gel boxes:	16 (reused)	16		
Power supplies:	8 (reused)	8		
Micropipetors	16 (reused)	16		
Fry pans for agarose	2 (reused)	2		
Fry pan thermostats at $60 ^{\circ}$ C	2 (reused)	2		_
Electrophoresis buffer in 2 plastic bottles	6 liters (reused)	6 liters		
*Methylene blue A+ B	1.0 L for 1-	3 sections		
*Funnel for used stain	1			

^{*} Not needed for lab 4 version C

*Bottle for used stain

SPECIAL REQUEST TO TEACHERS REGARDING USE OF RELATIVELY EXPENSIVE SUPPLIES (LABS 3, 4, AND 5).

If you have multiple sections:

You will receive several duplicates tubes of DNA and/or of restriction enzyme. Each set has enough for one section, plus a little extra in case of problems.

We ask that you use up one tube fully before opening the next section's tube. Maybe you will have an unopened tube left over after several sections. When you return the unopened tube, it conserves the grant's resources.

Whether or not you have multiple sections:

If you have a tube that still contains material, but that has been opened and partly used up, please mark the tube with a marking pen (black dot on the lid) before returning to us, so we will know to measure contents before we sent that tube out to another teacher.

In lab kits 4 and 5:

Please save all the 1.5 ml colored tubes that come in the kit. Throw away all the white 1.5 ml white tubes.

PACKING	LIST - Lab 4 DNA	FINGERPRIN	TING	
page 1 of 3			Number of	Students
TEACHER			Number of	Students
Paper			Total	PKD °
Protocols: N	umber of Students plus	s 10	10 –	
	# of Ver. A S	nidents: + 1	10 =	
	# of Ver. C St	tudents: + 1 tudents: + 1 tudents: + 1	0 =	
Evaluation:			1	
KEEP BIO	LOGICALS FROZ	EN OR ON ICI	E UNTIL USE!	
Biologicals fo	or Version A			
Uncut DNA'	s for <u>0.8 % agarose s</u>	ystem:		
Label Code	DNA Type	Sections:	Tubes per section	Total PKD
"X"	Lambda DNA	A:	1	
"Y"	Lambda DNA	A:	1	
"Z"	Lambda DNA	A:	1	
(to each tube	of X, Y & Z add 25 ul	of DNA and 15 u	al of water	
"100"	KB Ladder 25 ul of stock	A:	1	
	Suse the above DNA NA digested by Hinl		bda DNA digested by sed for the B version	
Restriction I	Enzymes for 0.8 % ag	araose system:	20 ul each tube	
"B1" "B2"	BamH I A:_ HinD III	2 2	2	
	Buffer for 0.8% agardeck (10X) buffer 1:1 w			
"R"	Restriction buffer 5	(X) A:	20	
	,	•		

TEACHER		Number of Students			
Ver. A Ve	r. B Ver. C				
ITEM	# per sectioN	Total	# of Sections	PKD ° Ret.	
Pipette tips	20 boxes reused for 1-3 sections plus 10 for each add'l section				
10 ml pipette	20				
Practice 10 ml pipettes	20 (reused)	20			
Baggies	40				
3" X 2" glass slides	20				
Practice 3" X 2" glass slide	es 20 (reused)				
Staining trays	20 (reused)				
250 ml sealed flasks with 100 ml of 0.8% agarose	3 A+B				
250 ml sealed flasks with 100 ml of 0.8 to 1.0 % agarose	3 Ver. C				
1.5 ml tubes	65 35 65				
Portion cups Ver.A	20				
9 oz waste cups	20 (reused)				

PACKING LIST -lab 4

page 3 of 3
TEACHER -______ Number of Students _____

section Total	# of Sections	PKD ° Ret.	
eused) 20			
20			
used) 6			
C:			
eused) 16			
	eused) 20 eused) 20 eused) 20 eused) 20 eused) 20 eused) 6 eused) 16 eused) 16 eused) 16 eused) 16 eused) 16	cused) 20 cused) 20 cused) 20 cused) 20 cused) 20 cused) 6 cused) 16 cused) 16	cused) 20 cused) 20 cused) 20 cused) 20 cused) 20 cused) 6 cused) 16 cused) 16

Note: Preparing transparencies from baggies

Each student will record the bands produced on the gel at their station by tracing their own transparency.

- 1.) At the beginning of the lab have each student use the marking pen to draw a rectangle on one thickness of a torn open baggie.
- 2.) The glass slide should be placed on the plastic and it's perimeter outlined with the pen.
- 3.) Do this step at the beginning of lab, before slide gets wet from pouring the gel.

Please return all colored 1.5 ml microtubes.

Please return foam test tube racks