

American Bioanalytical, Inc.
Laboratory Investigations in Molecular Biology
Module II.2

Item	Catalog Number	Quantity per pair of students	Quantity for 10 students	Source	Size	Order Quantity	Price	Notes
XL-1 Blue MRF strain (for the class)	200403			Stratagene				
LBMM medium	3002-412	50ml	250ml	Qbiogene	50ml			
Tetracycline 5mg/ml	AB14227-00010	as required	as required	American Bioanalytical, Inc.	10ml	1	\$22.53	this is 5mg/ml stock solution Barton, textbook says 5mg/ml
LB+Tetracycline agar plates								Make to textbook recipe using Tetracycline solution and LB Agar Miller
LB Agar Miller	244520			Difco/BD	500g			Difco is now BD biosciences (old Difco number 0445-17)
10mM MgSO ₄	AB09013-00100	250ml	1250ml	American Bioanalytical, Inc.	100ml	1	\$31.54	this is 1M stock solution, dilute to 10mM
Lambda ZAP phage library	AB08089-01000	1ml	10ml	American Bioanalytical, Inc.	1ml	1	\$112.32	produced in module II.1 or supplied
SM Phage Storage Buffer	AB13304-01000		9ml	American Bioanalytical, Inc.	1 liter	1	\$55.87	used with Lambda ZAP above
0.5M IPTG	AB07022-00050	30µl	150µl	American Bioanalytical, Inc.	50ml	1	\$145.64	
X-GAL 250mg/ml	AB15088-00010	100µl	500µl	American Bioanalytical, Inc.	10ml	1	\$145.86	
NZY Agar plates	3007-022	2	10	Qbiogene	pk			
NZY Top Agarose	AB00972-00500	6ml	30ml	American Bioanalytical, Inc.	500g	1	\$399.00	Agarose LE/GPG to make NZY top agarose per textbook formula
Plaque Lift Denaturation Solution	AB11256-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$26.75	
Plaque Lift Neutralization Solution	AB11257-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$29.18	
2X SSC	AB13156-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$13.14	This is 20X SSC, dilute to 2X
Agarose LE/GPG	AB00972-00500	1g	5g	American Bioanalytical, Inc.	500g	see above	\$399.00	
1X TAE buffer solution	AB14112-01000	500ml	2500ml	American Bioanalytical, Inc.	1 liter	1	\$81.52	This is 50X, dilute to 1X
Plaque Wash Buffer	AB11258-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$37.67	
Probe Amp hybridization Buffer	AB11259-00100	6.5ml	32.5ml	American Bioanalytical, Inc.	100ml	1	\$90.98	
Plaque Lift 1st Wash	AB11261-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$26.75	
Plaque Lift 2nd Wash	AB11262-01000	50ml	250ml	American Bioanalytical, Inc.	1 liter	1	\$26.75	
1X SSC, 0.1% SDS	AB13293-01000	200ml	1000ml	American Bioanalytical, Inc.	1 liter	1	\$83.76	This is also known as Oligo Southern Wash II, and Genomic Southern Wash II
0.5X SSC, 0.1% SDS		200ml	1000ml	American Bioanalytical, Inc.				Use AB13156-01000(20X SSC) and AB01922-01000 (20% SDS) and dilute to specifications in textbook

SDS, 20% Solution	AB01922-01000			American Bioanalytical, Inc.	1 liter	1	\$100.05	for use in above recipe
ECL Buffer 1 w/ 0.1% Tween 20	AB04121-01000	20ml	100ml	American Bioanalytical, Inc.	1 liter	1	\$38.88	
ECL Buffer 1	AB04120-01000	300ml	1500ml	American Bioanalytical, Inc.	1 liter	1	\$26.75	use to make Antibody solution below
BSA	AB01088-00100			American Bioanalytical, Inc.	100g	1	\$230.55	use to make Antibody solution below
Anti-Fluorescein Antibody/horseradish peroxidase conjugate	RPN3022			Amersham/GE Healthcare	50ml			use to make Antibody solution below
Antibody Solution	see above reagents							
Tween 20, 1%	AB02038-00500	20ml	100ml	American Bioanalytical, Inc.	500ml	1	\$24.78	This is neat Tween 20, dilute per textbook instructions
Antibody Blocking Solution	AB00183-01000	20ml	100ml	American Bioanalytical, Inc.	1 liter	1	\$35.25	This is 0.5% Non-Fat Dry Milk in ECL Buffer 1
ECL Detection Solution 1	RPN-2105	10ml	50ml	Amersham/GE Healthcare	10ml			
ECL Detection Solution 2	RPN-2105	10ml	50ml	Amersham/GE Healthcare	10ml			
SM Phage storage buffer	AB13304-01000	200µl	1000µl	American Bioanalytical, Inc.	1 liter	1	\$55.87	
5X Blue Juice Loading Dye	AB01028-00001	2µl	10µl	American Bioanalytical, Inc.	1ml	1	\$58.22	
100bp DNA Ladder in Blue Juice	AB03142-00060	10µl	50µl	American Bioanalytical, Inc.	60µl	1	\$58.22	Blue Juice included, add just before use
Ethidium Bromide 10mg/ml	AB00512-00010	as required	as required	American Bioanalytical, Inc.	10ml	1	\$27.95	this is 10mg/ml stock solution, prepare per textbook instructions
Laboratory Investigations in Molecular Biology Lab manual	PL88200-00001			American Bioanalytical	Each		\$63.95	
Following are duplicates of module 1.2 and need not be reordered								
FL-PCR Labeling Kit	1163615490			Roche Applied Science Division				
pBluescript Plasmid w/ Rvt insert (4ng/29.5µl)	AB01667-00200	30µl	150µl	American Bioanalytical, Inc.	200µl		\$37.45	
Rvt Repeat Forward Primer (10pm/µl)	AB12110-00050	1µl	5µl	American Bioanalytical, Inc.	50µl		\$140.40	
Rvt Repeat Reverse Primer (10pm/µL)	AB12111-00050	1µl	5µl	American Bioanalytical, Inc.	50µl		\$140.40	
Equipment and Accessories								
agarose gel apparatus								
UV Transilluminator								
Gel Photography Apparatus								
Plastic wrap or plastic development folder								
X-RAY Cassette								
X-RAY Film (Kodak Biomax)								
GBX Developem (Kodak)								
GBX Fixer (Kodak)								

<i>Darkroom Access</i>								
<i>Nylon Filters Nytran, 82mm diameter</i>	10-4416-116			Schleicher & Schuell	pack			
<i>Whatman 3MM paper</i>	10 427 918			Whatman	pack			
<i>UV Cross Linker or baking oven</i>								
<i>Plastic hybridization bags</i>								
<i>Marking Pen</i>								
<i>Stick pins</i>								
<i>PCR Thermocycler</i>								
<i>Tabletop Centrifuge</i>								
<i>Water bath</i>								
<i>lid Locks</i>								
<i>Heat Block</i>								
<i>Pencil</i>								
<i>Stain/destain trays</i>								