

American Bioanalytical, Inc.
Laboratory Investigations in Molecular Biology
Module II.1

Item	Catalog Number	Quantity per pair of students	Quantity for 10 students	Source	Size	Order Quantity	Price	Notes
EcoRI restriction endonuclease	R0101S	4µl	20µl	New England Biolabs	10,000U			
EcoRI 10X Reaction Buffer	part of above							Shipped with above
Mouse Genomic DNA 250ng/40µl	AB09081-00500	40µl	200µl	American Bioanalytical, Inc.	500µl	1	\$70.20	contains Blue Juice, mix before use
Uncut Mouse Genomic DNA Control in Blue Juice	AB15109-00100	15µl	75µl	American Bioanalytical, Inc.	100µl	1	\$60.65	includes Blue juice, mix just before use
Phenol, Buffered pH 7.0	AB01618-00500	50µl	250µl	American Bioanalytical, Inc.	500ml	1	\$110.68	
CHISAM (Chloroform:isoamyl alcohol 24:1)	AB02345-00500	50µl	250µl	American Bioanalytical, Inc.	500 ml	1	\$44.34	
Agarose LE/GPG	AB00972-00500	1g	5g	American Bioanalytical, Inc.	500g	1	\$399.00	
1X TAE	AB14112-01000	500ml	2500ml	American Bioanalytical, Inc.	1 liter	1	\$81.52	This is 50X TAE, dilute to 1X
5X Blue Juice Loading Dye	AB01028-00001	50µl	250µl	American Bioanalytical, Inc.	1ml	1	\$58.22	
Lambda BstII markers(25ng/µl)	AB08086-00100	6µl	30µl	American Bioanalytical, Inc.	100µl	1	\$58.22	
Lambda HindIII Markers (25ng/µl)	AB08082-00100	6µl	30µl	American Bioanalytical, Inc.	100µl	1	\$58.22	
T4 DNA Ligase	600011	1µl	5µl	Stratagene	75µl	1		
10X DNA Ligase buffer, no ATP	part of kit above	1µl	5µl	Stratagene				
ATP	part of kit above	1µl	5µl	Stratagene				
Lambda ZAP Express Vector	239614			Stratagene				Part of Gigapack III Cloning Kit
Gigapack Gold III packaging extract	200203			Stratagene				
LBMM Medium	3002-412			Qbiogene				
LB Agar	244520			Difco/BD	500g			
Tetracycline HCL Solution 5mg/ml	AB14227-00010	as required	as required	American Bioanalytical, Inc.	10ml	1	\$22.53	
NZY Agar Plates	3007-022			Qbiogene				
NZY Top Agarose	AB00972-00500	6ml	30ml	American Bioanalytical, Inc.	500g	1	\$399.00	Agarose LE/GPG to make NZY top Agarose in NZY Medium per textbook instruction
XL1-Blue MRF Cells	239614	200µl	1000µl	Stratagene	kit			Part of Gigapack III Cloning Kit
10mM MgSO ₂	AB09013-00100	250ml	1250ml	American Bioanalytical, Inc.	100ml	1	\$31.54	This is 1M, dilute to 10mM
SM Phage Storage Buffer	AB13304-01000	10µl	50µl	American Bioanalytical, Inc.	1 liter	1	\$55.87	
Chloroform	AB00350-00500	20ml	100ml	American Bioanalytical, Inc.	500ml	1	\$23.75	
0.5M IPTG	AB07022-00050	30µl	150µl	American Bioanalytical, Inc.	50ml	1	\$145.64	
X-GAL, 250mg/ml in DMF	AB15088-00010	100µl	500µl	American Bioanalytical, Inc.	10ml	1	\$145.86	
NZY	3007-022			Qbiogene				

NZY Top agarose	AB00972-00500	6ml	30ml	American Bioanalytical, Inc.	500g	see above	\$399.00	Make top Agarose with NZY medium shown above
Maltose	M9171-100g			Sigma	100g			
DMSO, 21%	AB03091-00050	6ml	30ml	American Bioanalytical, Inc.	50ml	1	\$50.74	This is neat DMSO, dilute to 21%
Ethidium Bromide	AB00512-00010	200ml	1000ml	American Bioanalytical, Inc.	10ml	1	\$27.95	This is 10mg/ml stock solution, dilute per textbook instructions
Laboratory Investigations in Molecular Biology Lab manual	PL88200-00001			American Bioanalytical	Each		\$63.95	
Equipment and Accessories								
<i>Phase Lock Lite Tubes</i>	955154037	1	5	Eppendorf	pk			
<i>Millipore VSWP 04500 Dialysis Membranes</i>	VSWP04700	1	5	Millipore	pk			
<i>Agarose gel electrophoresis gel apparatus and power supply</i>								
<i>UV transilluminator</i>								
<i>gel photography equipment</i>								
<i>Dry Ice</i>								
<i>Speed vacuum Concentrator</i>								
<i>Heat Block</i>								
<i>Water bath</i>								
<i>nanofuge</i>								
<i>Table top centrifuge</i>								
<i>Access to fume hood</i>								
<i>Microcentrifuge</i>								
<i>Petri Dish</i>		1	5					
<i>Beaker, 250ml</i>		1	5					
<i>Safety Glasses</i>								
<i>Plastic trays for staining/destaining gels</i>								