

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

Item	Catalog Number	Quantity per pair of students	Quantity for 10 students	Source	Size	Order	Price	Notes
Frozen mouse Liver	AB09084-02000	350mg	1750mg	American Bioanalytical	2000mg	1	\$168.48	Drop Shipped on dry Ice
Liquid Nitrogen		50ml	250ml	Local Source				
Qiagen Genomic-tip DNA Column(DEAE)	10262	1	5	Qiagen	pack			
Qiagen Genomic DNA Buffer Kit	19060	1	1	Qiagen	kit			
Qiagen buffer G2	part of kit above	20ml	100ml	Qiagen				
Qiagen Buffer QBT	part of kit above	10ml	50ml	Qiagen				
Qiagen Buffer QC	part of kit above	30ml	150ml	Qiagen				
Qiagen Buffer QF	part of kit above	7ml	35ml	Qiagen				
<i>The Qiagen G2 Buffer no longer includes Proteinase K or RNase: Textbook authors recommend the following products be purchased and used with the Qiagen G2 Buffer.</i>								
<b>Proteinase K</b>	<b>AB00925-00100</b>			<b>American Bioanalytical</b>	<b>100mg</b>	<b>1</b>	<b>\$80.62</b>	
<b>RNase</b>	<b>AB12023-00100</b>			<b>American Bioanalytical</b>	<b>100mg</b>	<b>1</b>	<b>\$74.09</b>	
Isopropanol (Super IPA™)	AB7015-01000	5ml	25ml	American Bioanalytical	1 liter	1	\$38.88	
70% Ethanol (RNA Ethanol 70%)	AB04010-00500	5ml	25ml	American Bioanalytical	500 ml	1	\$56.00	
100% Ethanol (Alcohol for DNA/RNA)	AB00515-00500	600µl	3000µl	American Bioanalytical	500 ml	1	\$66.39	
TNE Buffer	AB14162-01000	1ml	5ml	American Bioanalytical	1 liter	1	\$36.46	
0.1X TE Buffer	AB14131-01000	600ml	3000ml	American Bioanalytical	1 liter	1	\$72.78	dilute this 100X TE buffer
1X TE Buffer	AB14131-01000	100µl	500µl	American Bioanalytical	1 liter			dilute this 100X TE buffer
1X TAE Buffer	AB14112-01000	1000ml	5000ml	American Bioanalytical	1 liter	1	\$81.52	dilute this 50X TAE buffer
Agarose LE/GPG™	AB00972-00500	2g	10g	American Bioanalytical	500g	1	\$399.00	
5X Blue Juice Loading Dye	AB01028-00001	120µl	600µl	American Bioanalytical	1 ml	1	\$58.22	
Mouse Genomic DNA (500ng/µl)	AB09085-00100	6µg	30µg	American Bioanalytical	100µl	1	\$38.88	
Lambda HindIII Marker in 5X Blue juice (25ng/µl)	AB08082-00100	6µl	30µl	American Bioanalytical	100µl	1	\$58.22	Blue Juice included, mix just before use
Lambda BstEII marker in 5X Blue Juice (25ng/µl)	AB08086-00100	5µl	25µl	American Bioanalytical	100µl	1	\$58.22	
Ethidium Bromide DNA Stain (10mg/ml)	AB00512-00010	200ml	1000ml	American Bioanalytical	10ml	1	\$27.25	
AluI Restriction Nuclease	R0137S	3µl	15µl	New England Biolabs	1000U			
EcoR1 Restriction Endonuclease	R0101S	3µl	15µl	New England Biolabs	10,000U			
HpaII Restriction Endonuclease	R0171S	3µl	15µl	New England Biolabs	2000U			
SfiI Restriction Endonuclease	R0123S	3µl	15µl	New England Biolabs	2000U			
MspI Restriction Endonuclease	R0106S	3µl	15µl	New England Biolabs	5,000U			
10X NEB Buffer 1	included with enzyme above	10µl	50µl	New England Biolabs				
10X NEB Buffer 2	included with enzyme above	15µl	75µl	New England Biolabs				
10X NEB EcoR1 buffer	included with enzyme above	5µl	25µl	New England Biolabs				
3M Sodium Acetate pH 5.2	AB13168-01000	30µl	150µl	American Bioanalytical	1 liter	1	\$32.52	
Laboratory Investigations in Molecular Biology Lab manual	PL88200-00001			American Bioanalytical	Each		\$63.95	
<b>Equipment and Accessories</b>								
<i>Mortar and Pestle</i>								

45 mm Millipore type VSWP,0.025mm, (2 dialysis membranes)	VSWP04700			Millipore	pack			
Spectrophotometer (UV/VIS) Quartz Cuvette, rocking platform, or roller drum)								
Agarose gel electrophoresis unit, power supply								
UV Transilluminator								
DNA Gel Photography unit								
Lab Coats (2)								
Flame Drawn pasteur Pipet (1)								
Plastic containers for staining/destaining gels (2)								
15ml glass corex tube (1)								
Disposable 50ml syringe(1) and rubber stopper with hole (1)								
Safety Glasses (2)								