

**Tech Prep Sheet: Bio Sci 230****Gel Electrophoresis: please review list before beginning of semester and ensure ALL items are available as listed.**

Supplies	Amount/ student pair	Total # students	Total amount	Precautions/storage/timeline
1.5 ml microfuge tubes	16	24	384	In lab, non sterile are fine
DI water (in microfuge tubes)	1	24	15	Reuse, put in labeled microfuge tubes ( in rack)
Semi Log paper	2	24	30 plus	Good quality paper, 3 semi-log interactions..
Reagents	Amount/ student pair	Total # students	Total amount	Precautions/storage/timeline
Lambda DNA	10 ul	24	120ul	Double check all DNA amounts prior to aliquoting
Predigested lambda (with Hind 3)	10 ul	24	120ul	Similar to 107 stuff is OK
Predigested lambda (with BSTE)	10 ul	24	120ul	Similar to 107 stuff is OK
Pbr 325 plasmid	26 ul	24	300 ul	Ensure plasmid has cut site with HIND 3
1 KB ladder	20 ul	24	260 ul	Similar to 107 stuff is OK
Restriction buffer	30 ul 2X 10 ul 10 X	24	360 ul 2X 120 ul 10 X	10X conc. High salt buffer. Sub-aliquot 10 X and 2 X stock vials
Loading dye				Make rack of this, 6X loading dye.
Electrophoresis buffer (1 X TAE).	250 mls	24	3 liters	Have stock in 4 liter container
Cyber green	8 ul	24	100ul	
agarose	2 grams	24	24	0.8 and 2 % gels, 1 set per team
Equipment	Amount/ student pair	Total # students	Total amount	Precautions/storage/timeline
Gel boxes, power supplies, pipets, tips				In lab
37 degree water bath				Turn on 1 hour prior to start of lab..
Gel Doc system				Paper for pinter..
Flating microfuger racks				Ensure there are at LEAST 30 in lab

