

Kit Materials List

3	Agarose melt & cast (prepared) 0.8%, 400 mL*	1	Spot plates (simulated DNA chip), p/10
1	Ampicillin, 0.02 g, materials coupon*	4	Spreading rods, sterile,* p/10
30	Bags, plastic, resealable*	1	Stirrers, plastic, p/10
1	Calcium chloride (CaCl ₂), 0.05 M, 30 mL*	6	TBE running buffer, 10×, 125 mL*
1	Cell lysis mixture, 30 g*	2	Test tube racks
2	Cotton swabs, sterile,* p/24	1	Test tubes, p/20
1	DNA sample set (Lab 4)*	10	Trays, plastic
1	DNA sample set (Lab 5)*		
1	<i>E. coli</i> , MicroLIVE® system*	1	Curriculum Guide
1	Electrophoretic dye sample set (Lab 4)*	1	Curriculum Resource CD-ROM
4	Ethyl alcohol, 30 mL*		
10	Filters, coarse*		
1	Fluorescent dye, simulated, 30 mL*		
1	Inoculating loops, sterile,* p/20		
1	Luria broth, 5 mL*		
2	Luria broth agar, 275 mL*		
1	Microfuge tubes, sterile, 2 mL,* p/50		
1	mRNA #1, simulated, 30 mL*		
1	mRNA #2, simulated, 30 mL*		
1	mRNA #3, simulated, 30 mL*		
2	Neo/BLUE™ DNA stain, 10×, 100 mL*		
2	Nutrient agar, 200 mL*		
1	Papain, protease, 2 g*		
2	Pencils, wax		
66	Petri plates, sterile*		
20	Pipets, plastic, 1 mL*		
280	Pop beads, black (guanine)		
280	Pop beads, blue (cytosine)		
480	Pop beads, clear connectors (hydrogen bond)		
200	Pop beads, green (thymine)		
960	Pop beads, red (phosphate group)		
960	Pop beads, white 5-hole (sugar group)		
200	Pop beads, yellow (adenine)		
1	pUC18, 100 µL, materials coupon*		
1	<i>Serratia marcescens</i> , MicroLIVE® system*		
1	Spoolers, DNA, p/20		

* = consumable item

† = in separate box

To order consumable items, please call 1-800-225-3739.

Teacher-Provided Items

- 40 Aprons
- 10 Beakers, glass, 100 mL
- 10 Beakers, glass, 500 mL
- 21 Beakers, glass, 1 L
- Bleach, household
- 10 Casting trays, electrophoresis (includes end dams and well-forming comb)
- 1 Clock
- 5 Electrophoresis tanks (double-gel capacity)
- 3 Flasks, Erlenmeyer, 1 L
- 10 Funnels, plastic
- 40 Gloves
- 10 Gloves, heat-protective (heat-resistant)
- 1 Graduated cylinder, 1000 mL
- 10 Graduated cylinders, 10 mL
- 10 Graduated cylinders, 100 mL
- 10 Hot plates
- Ice
- 2 Incubators
- 1 Knife, kitchen
- 10 Markers, permanent
- 1 Masking tape, roll
- 2 Microfuge holders, floating
- 5 Micropipets, fixed-volume, 10 μ L
- 5 Micropipets, variable-volume, 2-250 μ L
- 1 Microwave oven
- 3 Onions, large
- 10 Paper, black construction
- 1 Paper towels, roll
- 10 Pencils, colored sets
- 2 Power supplies, variable-voltage (50, 100, and 125 V)
- 10 Rulers, 6-inch
- 40 Safety goggles
- 10 Spoons, metal, large
- 1 Stirring rod
- 10 Thermometers
- 180 Tips, micropipet
- 1 Transparent tape, roll
- Water, distilled (bottled)
- Water, tap
- 1 White-light transilluminator (optional)

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