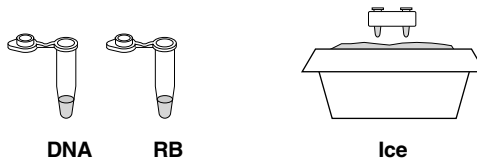


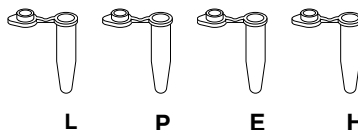
## Quick Guide—Restriction Digestion and Analysis

### Sample Preparation

- Obtain the microtubes that contain each enzyme stock solution, lambda DNA, and restriction buffer. Keep all the stock solutions on ice.

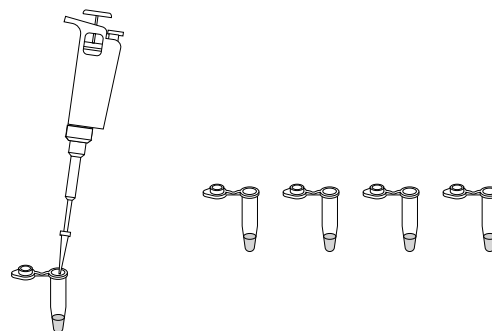


- Obtain one of each colored microtube and label them as follows:  
 yellow, L = lambda DNA  
 violet, P = *Pst*I digest  
 green, E = *Eco*RI digest  
 orange, H = *Hind*III digest

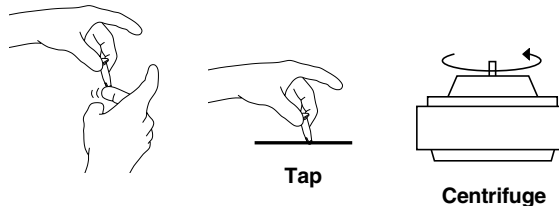


- Pipet the reagents into each tube according to the table below (Use a fresh tip for each transfer):

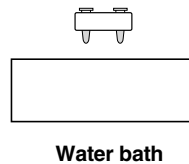
tube	DNA	buffer	<i>Pst</i> I	<i>Eco</i> RI	<i>Hind</i> III
L	4 $\mu$ l	6 $\mu$ l	—	—	—
P	4 $\mu$ l	5 $\mu$ l	1 $\mu$ l	—	—
E	4 $\mu$ l	5 $\mu$ l	—	1 $\mu$ l	—
H	4 $\mu$ l	5 $\mu$ l	—	—	1 $\mu$ l



- Mix the components by gently flicking the tube with your finger and tapping gently on the table to collect liquid to the tube bottom. If a microcentrifuge is available, pulse-spin in the centrifuge to collect all the liquid to the bottom of the tube.



- Place the tubes in the floating rack and incubate for 30 minutes at 37°C or overnight at room temperature.



- After the incubation, place the samples in the refrigerator until the next laboratory period.

