**Biotech I: Restriction Enzyme Digestion**

**Protocol:**  
1. Obtain micro test tubes that contain each enzyme stock solution, lambda DNA, and  
 restriction buffer. Keep all the stock solutions on ice.

2. Obtain one of each colored micro test tubes and label them as follows:

yellow tube: L (lambda DNA)

violet tube: P (PstI lambda digest)

green tube: E (EcoRI lambda digest)

orange tube: H (HindIII lambda digest)

3. **Using a fresh tip for each sample**, pipet the reagents into each tube according to the table below:

tube DNA buffer PstI EcoRI HindIII

L 4 µl 6 µl – – –

P 4 µl 5 µl 1 µl – –

E 4 µl 5 µl – 1 µl –

H 4 µl 5 µl – – 1 µl

4. Mix the components by gently flicking the tube with your finger and tapping  
 gently on the table to collect liquid to the tube bottom. Pulse-spin the tubes in a  
 centrifuge to collect all the liquid to the bottom or you can tap them gently on the  
 benchtop.

5. Place the tubes in the floating rack and incubate for 30 minutes at 37°C.

6. After the incubation, place the samples in the refrigerator until your next OCC   
 laboratory class, OCC lab 7.