

# Cell Membrane Permeability Worksheet

#### Data Table 1. Neutral Red and Yeast

	Color
Color of neutral red and sodium bicarbonate	
Color after adding hydrochloric acid	
Color of yeast suspension	

# Data Table 2. Yeast-Neutral Red Suspension

	Color
Initial color	
Color after 5 minutes	

### Data Table 3. Filtered Yeast-Neutral Red Suspension

	Color
Color of yeast cells	
Color of liquid	

#### Data Table 4. Boiled Yeast-Neutral Red Suspension

	Color
Initial color	
Color after boiling	

#### Data Table 5. Yeast-Neutral Red Suspension with Bases

	Color
Color with sodium hydroxide	
Color with potassium hydroxide	
Color with ammonium hydroxide	

## **Post-Lab Questions**

- 1. Explain the color change observed in the yeast–neutral red solution in Data Table 2.
- 2. Explain the color change observed in the boiled yeast-neutral red solution in Data Table 4.
- 3. Based upon the observations in Data Table 5, is there any evidence for transport of the bases across the yeast cell membrane? Explain.