

Electron Capture and Photosynthesis Worksheet

Data Table

Time \ Sample	Color/Equivalent DCPIP Standard		
	0 minutes	5 minutes	10 minutes
A, Unheated			
B, Dark			
C, Heated			

Post-Lab Questions

- Describe any color change(s) observed in test tubes A–C. Explain any observed color change in terms of the rate of photosynthesis.
- Based on the evidence observed in this experiment, did the suspensions containing heated chloroplasts undergo photosynthesis? How does this result affect the use of the standard test tubes 1–7 as controls for interpreting the rate of photosynthesis?
- What factors might account for heated chloroplasts being inactive?
- What reasons account for the difference in the rate of photosynthesis between the unheated chloroplasts that were incubated in the light and those that were kept sealed in aluminum foil?
- What other factors besides lack of light and temperature might affect photosynthesis?