

1 vanic
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## **Post-Lab Questions**

- 1. How much NaOH is required to completely react with the PLA.
- 2. Why is the Acidification step required?
- 3. Describe the appearance of the plastic before it is placed in solution and after it is placed in the solution.
- 4. Describe the appearance of the solution before the reaction starts and after the reaction is complete.
- 5. What is the pH of the solution after the reaction stops and before any HCl is added?
- 6. Does the plastic degrade under base hydrolysis conditions?
- 7. Explain how the conversion of polylactic acid cups into a cleaning agent is an example of green chemistry in action.

## Data

Time	# Minutes	Temperature (°C)	Observation
	0		
	2		
	4		
	6		
	8		
	10		

# Drops 6M HCl	Color of Litmus Paper After Addition	рН	Acid or Base?
50			
100			
150			
200			
250			
300			
350			