Name: _____ Group: _____ Date: _____

LAB 45
TECHNIQUE

DETECTING VITAMIN C

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Goal

Apply a technique to determine if a food or a solution contains vitamin C.

Materials

- 2 test tubes (15 mm × 125 mm)
- test-tube rack
- marker
- dropper bottle of distilled water
- dropper bottle of vitamin C solution
- dropper bottle of indophenol solution

Procedure

1. Number the test tubes 1 and 2 with the marker.
2. Add 20 drops of distilled water to test tube 1.
3. Add 20 drops of vitamin C solution to test tube 2.
4. Add 2 drops of indophenol solution to each test tube.
5. Observe the contents of the test tubes and record your observations.
6. Clean up and put away materials.

Results

Record your observations in the table below. Give the table a title.

Title:

Test tube	Substances in test tube	Observations

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Reflecting on the lab technique

1. What indicator is used to detect vitamin C?

_____

2. How is the presence of vitamin C in a food or a solution confirmed using this indicator?

_____

_____

3. Why is a test tube containing only distilled water and the indicator prepared?

_____

_____

4. Are the results you obtained conclusive? If not, what are the possible sources of error?

_____

_____

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