

Basic Column Chromatography Worksheet

Data Table

Band Number	Color of Band	Eluent	Approximate Volume of Eluent
1			
2			
3			

Post-Lab Questions

- How did conducting column chromatography confirm the presence of accessory pigments in spinach leaves?
- Use an additional reference source such as a textbook or the Internet to rank the eluents used in this lab according to their polarity. List the nonpolar eluent first.
- Given the order which the bands exited the column and the polarity of each eluent, which color pigment was the most polar?
- Column chromatography is performed on a leaf extract from a maple tree. Chromatography produces a green band, as expected, but also separates red, orange, and yellow pigments. Use additional resources to predict the identity of these pigments.
 - Relate this phenomenon to the color of leaves produced in the fall.