

Extract:

Name

Column Chromatography Worksheet

Note: Spinacl	h extract chromato	graphy will separate	three pigments ar	d tomato extract	chromatography v	vill separate two
pigments.						

Pigment Number	Observations	Eluent Used (circle one)	Identification
		Hexane	
1		Hexane–acetone mixture	
		Hexane	
2		Hexane–acetone mixture	
3		Hexane	
Spinach group only		Hexane–acetone mixture	

Questions

- 1. Use the observations above and the information included in the *Background* section to tentatively identify the pigments that were separated in this lab.
- 2. Given the polarity of each eluting solvent (see Question 3 in the *Pre-Lab*) describe the polarity of each pigment relative to the polarity of the other pigments in the mixture.
- 3. Design an experiment for the separation of pigments in a different colorful vegetable not used in this lab. Outline a procedure and explain your reasoning for each step.