

Measurement Sheet

Lab #7: Electrophoresis

MIT Nanomaker_Spring 2013

Experiment #1: Paper Chromatography

You are given a black marker, paper, and solvent. Please separate the black color using the paper chromatography technique. Describe what you see and compare the performance of different types of paper and solvent.

	Filter paper	Paper towel	Coffee filters	Printer paper
Water				
Alcohol				
Oil				

Experiment #2: Color Separation with Agarose Gel

Please follow the instruction to make an Agarose gel used for color separations. Mix four different colors – red, yellow, blue and green and apply voltage to separate the colors. Please record the time that takes for the separation for different voltages.

	Time (mins)
10 V	
20 V	
40 V	

- 1) Is food coloring positive or negative charged?
- 2) Which color moves the fastest? And why?
- 3) What happened near the electrodes?

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6.S079 Nanomaker
Spring 2013

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