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# Lab 5: Diffusion and Osmosis

1. What do you expect will happen to the dialysis bags?

**Bag # What do you think will happen in the osmosis experiment?**

1  
2  
3

2. Why do the instructions suggest to test the water you use for the Diffusion in the tube for Chlorine? Did you find any?
3. What is the chemical reaction behind the Silver Nitrate test, or in other words, what is the white cloud that forms in the presence of Chloride ions?
4. Are you familiar with the Iodine and Benedict Test? What do they detect? How do you interpret the colors?

Test	After adding	Expected Color
Silver Nitrate	Chloride ions NOT present $\text{AgNO}_3$	
Silver Nitrate	Chloride ions present $\text{AgNO}_3$	
Iodine	Starch NOT present	Iodine
Iodine	Starch present	Iodine
Benedict	Reducing Sugars NOT present	Benedict Solution + heat
Benedict	Reducing Sugars present	Benedict Solution + heat

5. What are the results of the Filtration experiment?

## filtrate color explanation

Methylene Blue

Methylene Blue and Charcoal

HOW is activated charcoal removing the Methylene Blue? (It's not a chemical reaction.)

**45 minutes after you set up the first experiment:**

6. Coming back to the Osmosis experiment: