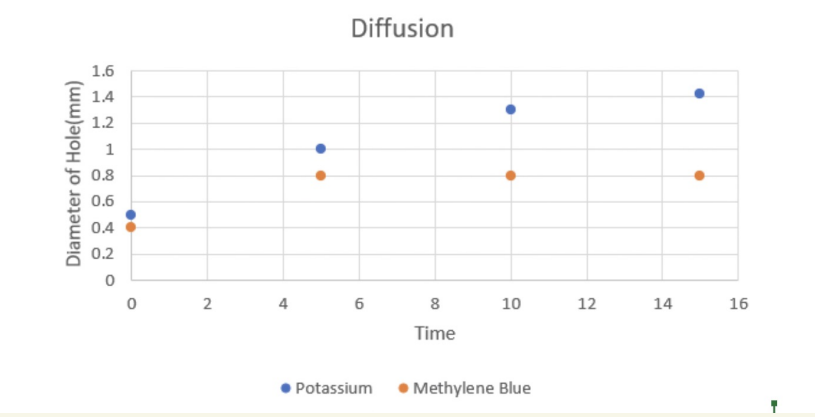
lab 2-C

purpose: To see which substance, methylun blue & potassium permanganate would diffuse the agar petri dish quicker in measurements of mm.

procedure: I put 2 drops of each substance into each hole in the agar petri dish. I measure the diameter of the 2 holes in the beginning then after each 5 minutes for 3 tries I continue to measure the growth of each holes' diameter. After I've gotten my data, I decide which substance has a faster diffusion rate

results:



Discussion: By the looks of the data + table we would see that Methylene Blue hardly diffused between a span of 0 min to 15 min. The substance that had a faster diffusion rate was the potassium permanganate. The K+ permanganate had an average diffusion rate of 1.055 mm. The Methelyne Blue had an average diffusion rate of 0.7 mm. By the naked eye you can see the K+ permanganate physically looks larger in diameter, while the Methelyne Blue looked like it hardly moved.

Conclusion: With this experiment, I was able to find the diffusion rate of 2 substances with a petri dish of agar and using the measurements of millimeters. The 2 substances we used were Potassium permanganate and Methylene Blue. I used a timer up to 15 minutes and every 5 minutes I put in data of how much they expanded in the agar holes. As you can see with the naked eye and with my data, potassium permanganate had a faster diffusion rate with an average rate of 1.055 mm which is 0.355 mm more than the Methylene Blues' rate.