



Osmosis egg lab report results







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ANSWER KEY

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Explain what happened to the egg that you moved from the syrup to the water. What do you think caused that to happen?

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What is earneals? (in your OWN words)

Campain is when males, les (in this pase water), move from where they are male as insertrated to where they are less cancertrated, in order to equal out the to reach the set.

Explain what happened to your eggs during this experiment, USING the consept of earneals.

Water moved to whenever there was more super. When the epo was in value, the water moved into the egg because the egg had more sugar distaives in 2 than the water. When the egg was in syrup, the water moved out of the egg and into the syrup.

AIM : To use vinegar-softened eggs, or 'rubbery eggs,' as a ce osmosis effects.

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gradient (toward the area of high solute concentration).
Experimental variable:
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:Conclusion To wrap this experiment up I can say that the trails that were done on each of the 5 different concentrations were repeated for each investigation performed by using a thermometer to monitor. Qualitative data: The potato cylinders fizzed small air bubbles in the distilled water cylinder and another thing its color and I can briefly tell by pre measuring and estimation before measuring with a ruler that as concentration of sucrose increased the size of the potato decreased making the size of the potato, which was placed in distilled water the biggest in size. How to control it? When doing this experiment I was able to see the effect of different concentrations on the rate of osmosis, each trail was done by measuring the initial mass of the potato cylinder and after osmosis, the results that were conducted shows that as the sucrose concentration increases the rate of osmosis also increases thusly making a direct decrease in mass. Osmosis in cylinders of potatoes. Maintaining all variables unchanged such as the pH, same size, and a constant temperature. Another thing that would have caused some error in the experiment is that the experim nutrition thusly affecting the amount of sugar in each so that might have affected the results of the experiments that were conducted. As seen the in the graph as the curve cuts the x-axis both the and the differences in mass of the potential for concentration of water is similar to that of the potato bottle. Bibliography "Lab Help for Ex. 6 Green Plant â II. A" Laboratory help for Ex. 6 Green Plant â II. A" Laboratory help for Ex. 6 Green Plant â II. Based on the experiments I have been able to extract, I can say that my hypothesis was supported by the data collected, which is that as the sucrose concentration increases, the rate of esmosis increases. I could see that the standard deviation was different from one concentration of 30y for) g (3.02 to 13. As seen above for each trial we had a different initial and final weighting the difference that was calculated as shown in Figure 1.: Improvements I suggest that if possible one way to improve the experiment would be by using an evenly distributed source of sucrose and a controlled ambient temperature to maintain more reliable results. is greater than that of the potato the particles will move from the potato to the sucrose then there will be a decrease in mass whereas if you put into a concentration where they have the same water potential this solution is called Isot Variables Va Nine. N.p., n.d. Web. The time required for all potato cylinders will be 30 minutes. Sucrose concentration (%) Mean percentage change (g) (±0.1) Standard deviation (g) 0.0 2.52 1.91 10.0 -6.07 3.02 30.0 -18.07 5.90 50.0 -25.20 1.86 70.0 -25.20 aL ocifAtneiC orteR:onerret a high water potential to a low water potential via a semi-permeable membrane. This would be achieved by using potato cylinders. - A F E C T O F C O N C E N T R A T I O N O N T H E R A T E O F O S M O S I S Prepared for:BIOLOGY Prepared by:ABDULLRHMAN ZAKI Date:1.12.2012: 2. (A person using the cork borer to remove a potato cylinder) Initial potato mass = 0.06Å100/1.70=3.53% Percentage change in the mass of the potato cylinder in the experiment 2 x 100Å¢¢¢mass= Initial potato mass = 0.02ÅÂ100/1.91=1, 05% To calculate the change in mass of each potato We must calculate the percentage change in mass of the potato bottles at different sucrose concentrations. The standard deviation for the experiments was calculated using Microsoft excel: Sucrose concentration (%) (±0.1m m) % change in Mass % Change in 0.0 2 1.05 2.52 10.0 (%) â 0.08 - 4.73 â 0.0 2 â 11.43 â 0.0 9 - 5.36 0.07 - 4.24 â 0.0 7 â 4.5 8 6.07 â 30.0 (%) -0.18 â 10.6 5 â 0.34 â 23.4 6 â 0.37 â 24.8 3 â 0.4 5 â 27.9 0 25.20 - 70.0 (%) â 0.37 â 25.6 9 â 0.4 5 26.6 3 â 0.36 â 23.2 0 â 0.45 â 23.2 0 â 0.45 â 25.42 â 0.4 2 â 26.5 8 25.52 10. Tissue type: The type of tissue has a certain effect on the rate of osmosis since the amount of glucose in each type of tissue .etnerefid se asam al ne lautnecrop oibmaC :soyasne ocnic sol ed olpmejE arap adalitsed auga ramoT = @¢Åssam001 x :jÅrev es Åsa 001 rop olodn; Acilpitlum ogeul y laicini asam al rop olodn© Aidivid recah edeup es ose y atatap ed ordnilic adac arap asam ed oibmac le rartnocne euq yah oremirp sodatluser sol renetbo araP soyasne 5 sol ed onu adac ne atatap ed ordnilic adac arap asam ed oibmac le rartnocne euq yah oremirp sodatluser sol renetbo arap asam ed oibmac le rartnocne euq yah oremirp sodatluser sol renetbo arap esraluclac ebed asam ed n³Äzar al renetnam arap etneibma arutarepmet al razilitu rop somazepme euq ol rop secacife siÃm senoisiloc odnacifingis arutarepmet al atnemua euq adidem a acit©Änic aÃgrene siÃm ed aicnetsixe al a odibed ,sisoms³Ã al a natcefa euq serotcaf sol ed onu se arutarepmet aL :arutarepmet aL :arutarepmet al atnemua euq adidem a acit© Ainc aÃgrene siÃm senoisiloc odnacifingis arutarepmet al atnemua euq adidem a acit© Ainc aÃgrene siÃm senoisiloc odnacifingis arutarepmet al atnemua euq adidem a acito ed onu se arutarepmet al atnemua euq adidem a acito ed onu se arutarepmet al atnemua euq adidem a acito ed onu se arutarepmet al atnemua euq adidem a acito ed onu se arutarepmet al atnemua euq adidem a acito ed n nareivut is y aratnemua atatap al ed asam al euq aÃrah ose, atatap al ed auga ed laicnetop le euq royam se auga ed laicnetop le ednod asoracas ed n³Aicartnecnoc anu ne nareisup es atatap ed salletob sal is euq ogiderP :siset³ApiH .asoracas ed n³Aicartnecnoc al se aÃd ne yoh odagitsevni rotcaf le ograbme nis, arutarepmet al y alucAtrap al ed o±Ãamat le odneyulcni sisoms³à ed asat al natcefa serotcaf sohcuM .5 acirtc©Ãle aznalab al ed osu le noc atatap adac ed laicini asam al rideM alletob .onu adac s mc 5,5 ne sordnilic ocnicitniev rariter ohcroc ed rodanerrab le odnazilitU :odot©ÃM rodacram 1)%07 ,%05 ,%03 ,%01(asoracas ed senoiculoS 4 ejasep ed ocsarf 1)s1.0 ±ÂÃ(acirtc©Ãle aznalaB)s 1,0 ±ÂÃ(acirtc©Ãle aznalaB)s 1,0 ±ÂÃ(sejoleR 5 adalitsed auga ed lm 021 *odiconocsed)YTNIATRECNU(oyasne ed sobut 52)mc 1,0±ÂÃ(etnerapsnart ocits;Ãlp ed algeR 1 acnalb asodlab 1 Ãrutsib 1)c 9,0(ohcroc ed reroB 1 atatap ed sednarg sazeip 2 :selairetaM atatap amsim al se euq odijet ed opit nu ol³ da atatap atatap ed ordnilic led asam al ne lautnecrop oibmaC %92,2 = 57,1/001 x40,0 = atatap al ed experiment 2 x 100¢A mass = Initial mass of potato x 100/1.91 = 0.52%0.01 = Percentage change in mass of the potato cylinder in experiment 2 x 100¢Â mass = Initial mass of potato =0.1ÅÂ100/1.90=5.23% Percentage change in mass of the potato cylinder in experiment 2 x 100¢ÂÂmass= 8. percentage of change in mass is decreasing thusly we can conclude that the difference of the initial from the final and as it gets greater that means the mass of the potato change in mass is decreasing thusly we can conclude that the difference of the initial from the final and as it gets greater that means the mass of the potato change in mass of the potato cylinder in experiment 2 x 100¢ÂÂmass= 8. the concentration of the sucrose solution increases the particle¢ÃÂÂs water potential increases and becomes higher than the potato. While in the experiment of the distilled water it was a little different since the water potential is higher than the potato. of each different concentration of potato Place the measured potatocylinders into different test tubes Label each test tubes that have potato in them and then repeat the same procedure by adding 10 ml of 10% sucrose concentration, 5 different and so on for the rest of the concentrations until 25 test tubes are filled with bead potatoes and different sucrose concentrations (5 of each concentrations) Data collection: Table 1: Shows the results of each concentration (5, 00%) Dependent Variable: The change of the concentration (5, 00%) Dependent Variab in mass (grams) of the potato cylinders before and after the experiment Controlled Variables: SA/V Ratios: To be able to balance different SA/V ratio to limit its effect on the rate of osmosis one must first measure the sizes using a cork borer to maintain the same diameter for each cylinder but changing the length of cylinders themselves. 7. start scheduling the experiment with the timer for 30 minutes When the 30 minutes are over, take out the cylinder in the beaker separately and record the final mass Build a table for harvesting Raw data, and records the initial and final mass of each different size of tissue *Repeat these steps for each concentration to record accurate results. To find the average percentage, add the % change in mass of the potato cylinder in experiment 2 and 3 and 4 and 5 and then / all of them over 5. 4. thela concentration of 70% that went for and finally) g (5.90 approached3) g (-.351 lowest rating: In the research I had a wide range of errors that I was not able to control, such as ambient temperature and ambient temperature, and that might have manipulated the results in a slight way, but it did not make the experiment fair. Taking distilled water as an example for all experiments: Mean percentage change of mass in 1 + percentage of mass in experimental percentage of mass in experimental percentage change of mass of potato bottles for sucrose concentrations. As the concentration of sucrose increases, the difference in mass of the potato increases, since sucrose is a hypertonic solution, which means that it has a higher number of dissolved particles. Another factor would be that the sugar around the potato chunks might not have been distributed evenly so each cylinder of potato has contained a different amount of sugar thus affecting the rate of osmosis. The most accurate experiment was for sucrose. (70 %) as it 1.353045.standard deviation of the had Table3: S.D for each change in % in (grams) Standard deviation in (g) for each average percentage change in (g). Sucrose concentration % 1.01 1.12 0.35 70.0(%) 1.44 1.69 1.54 1.77 1.58 1.07 1.24 1.18 1.32 1.16 6. 29 Nov. e change in mass in the 5 experiments, the average percentage changes in mass of the potato cylinders for each of the 5 different sucrose concentrations. Data Processing: After having collected the data from the experiment the data will be processed. The Standard deviation was calculated through mac iWork, which was able to show the reliability of the data that was collected and have the ability to see the range of errors using the error bars. Graph 1: The effect of the 5-sucrose concentration on the average percentage change in the mass of the potato cylinders. A good example would be the experiments with the concentrations of 10% and 70% concentration results to show the change. In the percentage decrease was -4.73 while for the concentration of sucrose 70% the change was -25.69 we can see that the RÃ²Â = 0.999 -30 -25 -20 -15 -10 -5 0 5 10 -10 0 10 20 30 40 50 60 70 80 average percentage change in the mass (%)(űÅ0.1g) of the potato cylinders 12. So we can see that osmosis cannot take place since it is a movement from high to low water potential and in this case they are both equal. equal.

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