

Pothos in Potassium

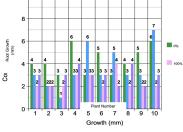
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Intro:

regulate the rate of photosynthesis." (Kaiser and Rosen 2014) excellent fertilizer for plant. The hypothesis was that the

form." (Tajer 2016)



Materials

-glass vials

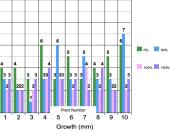
Methods:

- -label each cutting and place it in a tube -fill each tube with 25 ml of the correct concentration of potassium solute
- -let sit for 1 week and check back on root/node

Results:

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The graph visualizes the root growth between the different concentrations of potassium. Green is 0% concentration, Blue is 50%, Pink is 100%, and purple is 150%. The X-axis is the number given to the plant and the Y- axis is the total growth over the week.

As mentioned in the conclusion there were roots that began to grow to avoid the glass. This root is an example of the phenomena.





After a week, the roots

Pothos plants were divided, numbers and put nto concentrations of set up of the vials which were then placed in a wook



We checked root growth by how much the major node has grown. This is a clipping that was placed in 0% concentration and has shown growth through the stretch marks and change in length.



Conclusion:

With the results, the water solution was the most effective growth solution for the roots. Each P-Value was out of range and came to the conclusion of potassium not aiding in root growth within

There are many reasons that could point to these answers such as not allowing the roots time to grow to their full potential as well as space inhibiting growth. One of the roots was seen creating a new root shoot instead of growing into the glass. Another potential reason could be sunlight and having more light on the 0% and 50% solutions. It can also be the fact that the plants were placed in water instead of soil. This can prevent other minerals from being absorbed by the plant and stunt the growth of roots.

Cited Sources:

