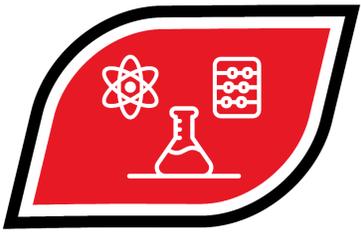


Chemical Analysis of Banana Peels To Boost Plant Growth

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Introduction

The project is about making vegetable growth booster from banana peels. This project is based on the idea on how to use banana peels as a booster for plant growth instead of using industrial fertilizers. This is made by soaking banana peels into a measured amount of water to leach its nutrients into water. This is applied by spraying to the vegetables nursery for the interval of four days. The fertilizer is environmental friendly and improves soil development.

Method

Requirements:

The requirements are banana peels, clean water, vegetable seeds (FIGIRI), plot of land and an uncontaminated container.

Plot preparation

The preparation of the area for a nursery is important to allow optimum seedling growth, maintenance of nursery site, unimpeded access and to provide hygienic conditions for vegetables growth. The size of the plot are 8 m x 1 m.

By setting the two plots of equal size and equal supply of water, plot A used industrial fertilizer (NPK fertilizer) and plot B used banana peels booster (rich of Magnesium, Potassium, Nitrogen and Vitamins).

The sample of vegetables used were Figiri and Spinach.

Begin with soaking by ratio of two banana peels into one litre of clean water in a container, the mixture is to be left without any disturbance for about 48 hours. This enables the leach of nutrients from the peels, these nutrients include Magnesium (Mg), Potassium (K), Vitamins as well as Phosphorus (P). In this mixture the filtrate is to be separated with its residue whereby this is done by simple distillation. After obtaining the filtrate it can be practically applied to vegetables. This is applied by spraying to the vegetable in interval of four days.



Results

The plot B which used banana peels as a growth booster yield vegetables of wide leaves and thick roots much more compared to plot A vegetables that used Npk fertilizer. Also the time approximated for plot B is to be complete and enough for the vegetables to be harvested is 30 days instead of 40 days that are taken by plot A.

Plot B with banana peels fertilizer.



Plot A with NPK fertilizer.



Conclusion

The banana peels booster is environmental friendly, it incurs very low cost compared to industrial booster and it influences the development of soil by improving the soil moisture which is essential for the development of the plant which of the plant growth since the nutrients obtained enable the growth of plants roots and it causes the distribution of nutrients in the roots.

NB. The project is at the final stage. The time waiting is for harvesting after vegetables in plot A to be enough for use.

References

Olericulture

<http://www.coa.sua.ac.tz>

Ryzer agro products.

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