

Zelp Foliar testing

(India Findij), April 2024



PLANTING

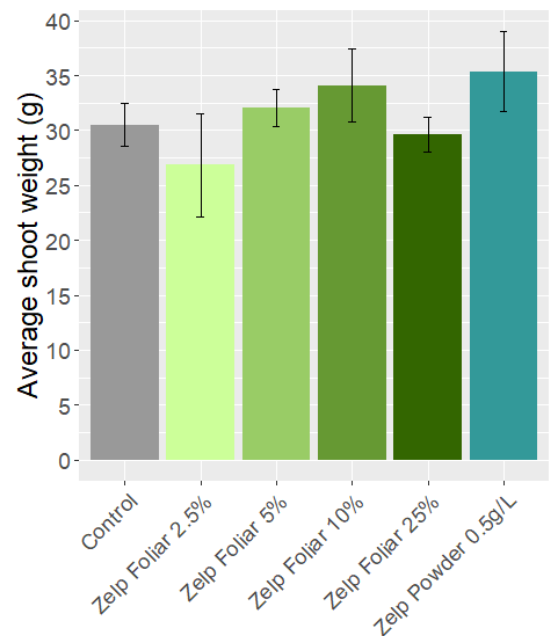
This trial was conducted in a greenhouse on R. Beattie's property at Lansdowne Valley.

This pot trial aimed at testing our latest Zelp Foliar product - a liquid product obtained by fermenting fresh kelp (mixed with water) using essential microorganisms (EM). The efficiency of Zelp Foliar was tested on microgreens growth on a 14-day period. Four concentrations of Zelp Foliar were tested (2.5%, 5%, 10% and 25%), compared to a control and a 0.5 g/L Zelp powder mix (optimal concentration based on previous trials). The Zelp Foliar, Zelp Powder and control (water) were administered as foliar spray once a day (15 ml per administration). The trial included 3 randomized replicates of each treatment. 50 microgreens seeds were sowed per pot in homogenous organic soil.

Sowing Date 02/04/2024 Harvest Date 16/04/2024.

RESULTS

- The Zelp Foliar 5% and 10% increased the microgreens average yields (shoot weight) by 5% and 12%.
- The higher yield appeared to result from an increased growth (longer shoots) and plant density.
- Zelp Foliar 10% seems to be the optimal concentration when administration occurs daily.



Probable explanations for the increase in productivity when Zelp is mixed through soil:

- **Zelp has extremely high antimicrobial properties** – Planted within the immediate vicinity of the seed, Zelp acts as a protective barrier to fight off harmful bacteria and fungi giving the plant a more resistant & resilient start.
- **Zelp is high in plant growth hormones** – Auxins, Cytokinins, Giberellins. These hormones help regulate cell mitosis (more, bigger, faster).
- **Zelp has a large number of bioavailable micronutrients** – These encourage plant growth and the growth of beneficial soil microbes, helping to establish crucial root symbioses.
- **Zelp is high in complex polysaccharides (sugars)** – These help soil life and plant life
- **Zelp is high in iodine** – This is an important component of thyroid hormones (contributing to growth, the nervous system and metabolism) and improves soil microbiology when added to soils.
- **Zelp is hydroscopic** – It attracts and retains moisture in surrounding soils.