



Solinure[®] Polymarine

Trial results

Kohlrabi
(var. Kunmar)

Solinure Polymarine is a next-generation chloride-free fertigation fertilizer. This new and unique addition to the Solinure family incorporates trace elements, Advanced-P technology, and seaweed extract to stimulate crop growth and stress tolerance and deliver immediate and long-lasting nutrition.





When

Transplanting:
December 22, 2022
Harvest:
March 7, 2023



Where

Southern Arava R&D



Crop

Kohlrabi (var. Kunmar)



Soil type

Light soil



Measurements

- Yield
- Biomass
- Leaf yield

Objective

To examine the effects of Solinure Polymarine and BIOZ Diamond on plant growth and development.

Treatments

- Solinure Polymarine (P)
- Solinure Polymarine (10-6-37+TE+SW+AN) + BIOZ Diamond (PM)
- Farmers Practice (Arava 12-2.5-5) (FP)
- Farmers Practice + BIOZ Diamond (FP+M)
- Control (No fertilizer) (C)

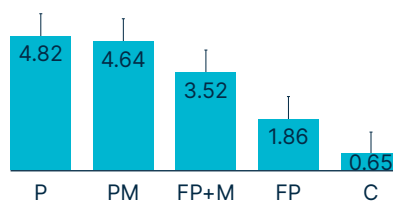
The NPK application rate was identical in all treatments apart from the control (no fertilizer).

Results

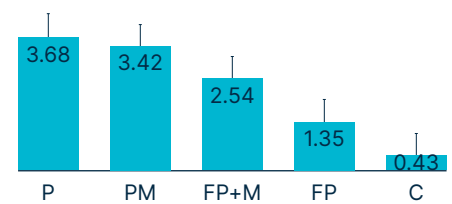


Drone photo of the trial plot at 30 days after planting

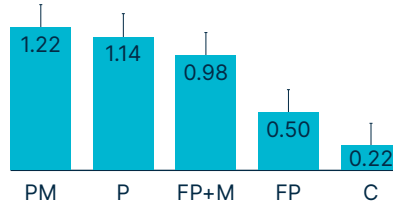
Total biomass (mean)



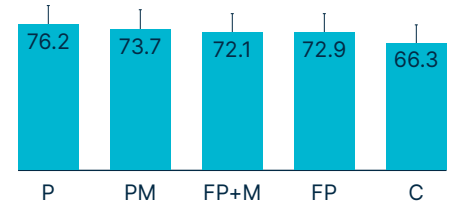
Kohlrabi yield (mean)



Leaf yield (mean)



Kohlrabi yield % from biomass



- Treatments P and PM resulted in the highest total biomass, significantly higher than other treatments, but not statistically different from each other.
- Leaf yield was highest in treatments P and PM, while not statistically different from each other.
- The kohlrabi yields from treatments P and PM were significantly higher than the other treatments but were not statistically different from each other. Treatment C (No fertilizer) was significantly the lowest for all yield parameters.

Conclusion

The Solinure Polymarine and Solinure Polymarine + BIOZ Diamond treatments delivered the best yield parameters for kohlrabi, compared to the commercial practice, with no statistical difference between the two Polymarine treatments. The contribution of BIOZ Diamond bio-stimulant to the yield of the Farmers Practice + BIOZ Diamond (FP+M) treatment is reflected in the application to the soil in subsequent growing season. When comparing the kohlrabi yield as a percentage of the overall biomass, the Solinure Polymarine treatment was significantly higher than all other treatments.

