



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, while delivering immediate and long-lasting nutrition.





When

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



Where

Southern Arava R&D
Israel



Crop

Kohlrabi (*var. Kunmar*)



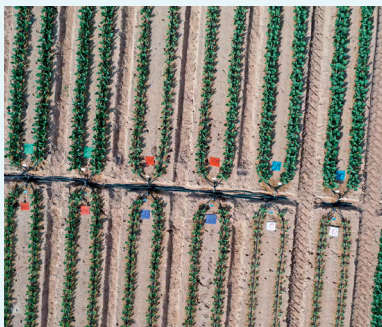
Soil type

Light soil



Measurements

- Yield
- Biomass



Trial plot at 30 days after planting

Objective

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

Treatments

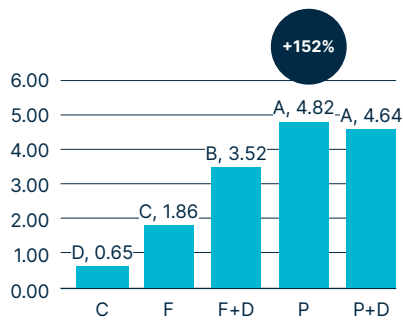
- Solinure Polymarine (10-6-37+TE+SW+AN) (P)
- Solinure Polymarine + Bioz[®] Diamond (P+D)
- Farmers Practice (Arava 12-2.5-5) (F)
- Farmers Practice + Bioz Diamond (F+D)
- Control (No fertilizer) (C)

The trial consisted of five treatments, and six repetitions. Each trial plot consisted of 4 rows, with 5 plants per meter in the row.

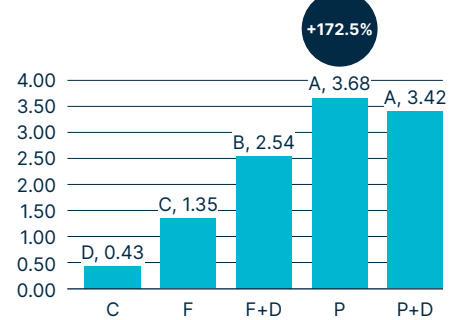
The NPK application rate was identical in all treatments, except the control (no fertilizer). In each case, nutrients were applied in the N-P₂O₅-K₂O ratio of 12-2.5-5, from planting to harvest. Bioz Diamond was applied at a total rate of 5 L/ha, split between two applications on 28th December (6 DAP) and 9th February (49 DAP), in treatments P+D and F+D. Bioz Diamond had also been applied to the same plots during the previous season.

Results

Total biomass (kg/m²)



Kohlrabi yield (kg/m²)



- Treatments P and P+D resulted in the highest total biomass, significantly higher than other treatments, but not statistically different from each other.
- Treatments P and P+D showed an increase in biomass of 152% and 142% respectively compared to the Farmers Practice (F).
- Treatment F+D showed an increase in biomass of 89% compared to the Farmers Practice (F).
- The kohlrabi yields from treatments P and P+D were significantly higher than the other treatments but were not statistically different from each other.
- Treatments P and P+D showed an increase in yield of 172.5% and 153% respectively compared to the Farmers Practice (F).
- Treatment F+D showed an increase in yield of 86% compared to the Farmers Practice (F).
- Treatment C (No fertilizer) was significantly the lowest for all yield parameters.

Conclusion

The Solinure Polymarine (P) and Solinure Polymarine + Bioz Diamond (P+D) treatments delivered the best yield parameters for kohlrabi, with no significant difference between the two Polymarine treatments, both of which outperformed the Farmers Practice (F). The benefit of the Bioz Diamond biostimulant is clearly demonstrated by the Farmers Practice + Bioz Diamond (F+D) treatment, significantly increasing the yield and biomass compared to the Farmers Practice. When the kohlrabi yield is assessed as a percentage of the overall biomass, the Solinure Polymarine treatment performed significantly better than all other treatments.

