PURALOOP
Trial

Cabbage *(Brassica oleracea var. capitata)* on a low P sandy soil

Puraloop is an innovative recycled phosphate fertilizer derived from organic waste streams, designed for sustainable food production. The product comes in granular form, ensuring easy and uniform application on the fields.

N	0%
P	38% P_2O_5
K	0% K_2O

ICL

Recycled phosphorus loop

When

- Application: 23 November 2022
- Harvest: 31 January 2023

Where

Northern Agriculture R&D, Israel

Crop

Cabbage *(Brassica oleracea var. capitata)*

Soil type

Sandy soil, low in phosphorus

Measurements

- Yield (g/pot)
- P uptake (%)

Zero P

TSP

Puraloop

Objective

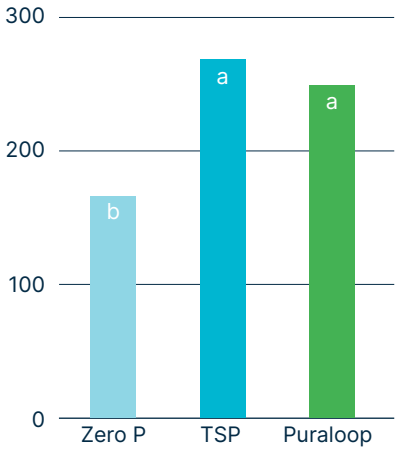
To evaluate the performance of Puraloop as a source of phosphorus for cabbage using a pot trial.

Treatments

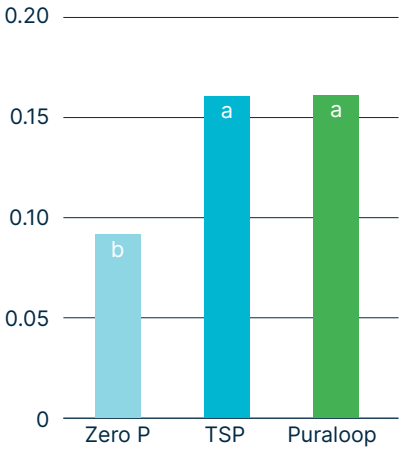
For this trial, cabbage was planted in a randomized block design (RBD) experiment set up with 6 blocks. Each repetition consisted of 5 pots with a 3L volume. The treatments consisted of a negative control (zero P), TSP, and Puraloop. Both TSP and Puraloop treatments received 460 mg P_2O_5/pot.

Other nutrients were applied in sufficient amounts via fertigation.

Fresh biomass (g)



P uptake (%)



Results

- Plants responded to P fertilization, with a significant difference between the –P and +P treatments.
- No significant differences were found between Puraloop and TSP, which shows that Puraloop is as efficient as conventional P fertilizers.

ICL Fertilizers Europe C.V.
1000 AH Amsterdam
The Netherlands
Tel: 00-31-20-5815100
www.icl-growingsolutions.com