



# PURALOOP

## Trial

**Pepper** (*Capsicum annuum*)  
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.

<b>N</b>	0%
<b>P</b>	38% P <sub>2</sub> O <sub>5</sub>
<b>K</b>	0% K <sub>2</sub> O





### When

- Application: 24 September 2022
- Harvest: 31 March 2023



### Where

LANDLAB Srl Società Benefit, Italy



### Crop

Pepper (*Capsicum annuum*)



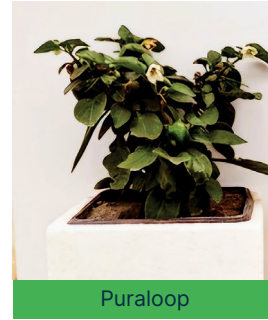
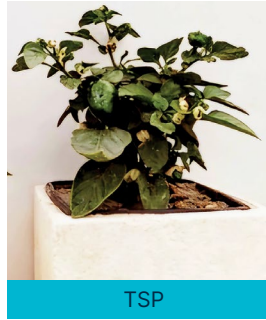
### Soil type

Sandy soil low in phosphorus



### Measurements

- Yield (g fruit/plant)
- P uptake (mg/pot)



## Objective

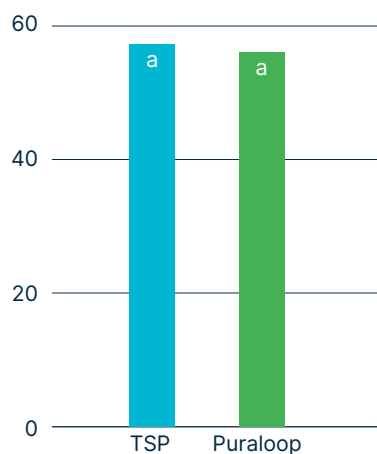
To evaluate the performance of Puraloop as a source of phosphorus for pepper on a pot trial.

## Treatments

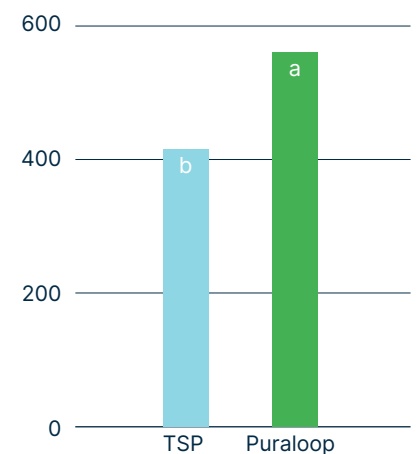
For this trial, pepper was planted in an RBD experimental set up with 6 blocks. Each repetition consisted of 5 pots with a 3L volume. The treatments consisted of a negative control (zero P), TSP and Puraloop. Both TSP and Puraloop treatments received 690 mg P<sub>2</sub>O<sub>5</sub>/pot.

Other nutrients were applied in sufficient amounts via fertigation.

### Yield per plant (g)



### P uptake (mg)



## Results

- Plants responded to P fertilization since the plants that received no P stopped growing after 1 month.
- No significant yield differences were found between Puraloop and TSP, however Puraloop resulted in higher P uptake, which shows that it is as efficient as conventional P fertilizers.



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