



BioPersi+

Phytoseiulus persimilis

Predatory mite for the biological control of spider mites



BioPersi+



BioPersi+ (*Phytoseiulus persimilis*) is a proven outstanding, aggressive and highly effective predator of spider mites.

TARGET PESTS

BioPersi+ is very target specific, it feeds exclusively on red and yellow spotted spider mites (*Tetranychus urticae*). Predation begins the same day of the application and the rate of the female predation is up to 20 spider mite eggs a day.



Spider mites in strawberries



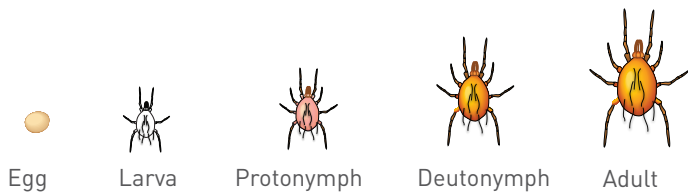
Spider mite hot spot

CROPS

Vegetables, cannabis, ornamentals, flowers, strawberries and raspberries.

DESCRIPTION

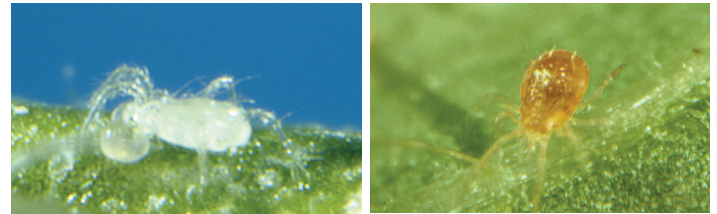
The adult female is pear shaped, reddish-orange colored and has longer front legs than its prey which allow it to easily navigate the spider mite webs and move faster.



At 21°C - 27°C BioPersi+ completes its life cycle from egg to adult in a week. It develops and reproduces twice as fast as its prey allowing it to suppress mite infestation quickly and thoroughly.

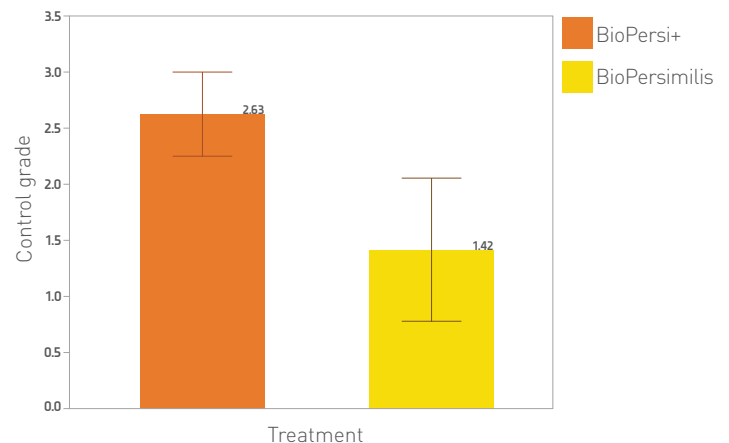
ADVANTAGES

BioPersi+ is produced on alternative feed, a true revolution in the mass rearing of *Phytoseiulus persimilis*. This innovative product which upon arrival looks a pale white, changes color to a reddish-orange, once it starts feeding on the spider mites.



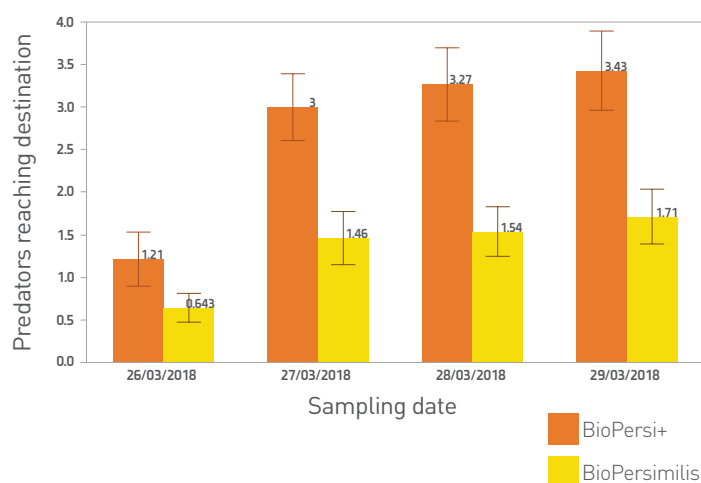
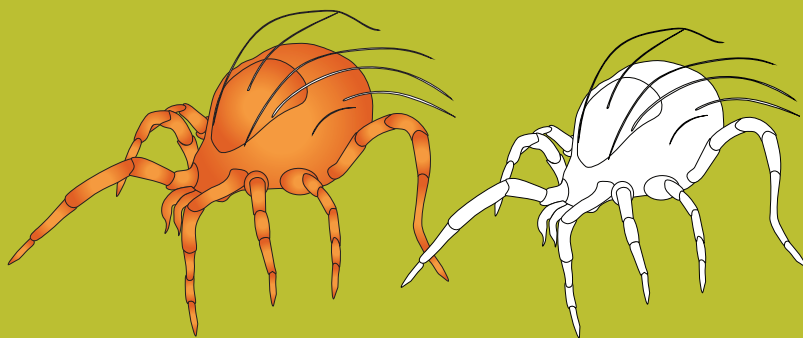
- The change in color offers proof of predation.
- BioPersi+ has a higher fecundity than the traditional *Phytoseiulus persimilis*: females lay over 19 eggs within 5 days.
- BioPersi+ displays better searching ability and control of hot spots, reaching its target quicker.

Control Trial



- 0 - Spider mites thrive, no control
- 1- Spider mites thrive but *Persimilis* starts to take control
- 2- Spider mites are under control
- 3- Spider mites are completely controlled

BioPersi+



THE PRODUCT

- A bottle contains 2,000 or 4,000 individuals: adults, young mobile stages and eggs, mixed in a sawdust and vermiculite medium.
- *Carpoglyphus lactis* eggs and mobile stages may also be present.



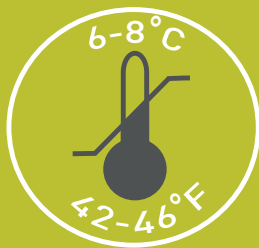
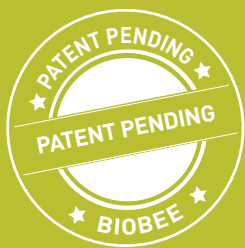
APPLICATION

- The product should be transported to the release site (open fields, greenhouses or net houses) in the insulated shipping boxes.
- The bottles should only be removed from the shipping boxes when ready to apply.
- The optimal application of BioPersi+ is during the early morning or late afternoon while temperatures are relatively mild. The recommended temperatures are of 21°C - 27°C with a humidity of 60% or higher.
- Before releasing, gently rotate the bottle, to evenly mix the mites and the vermiculite.
- The mites are released by gently tapping the opened container over the plants while walking between the rows of the crops.

STORAGE

- If the mites cannot be immediately released, the bottles must be stored in their original packaging, in a cool dark place, at temperatures between 4°C and 8°C (39 to 50°F).
- Store horizontally.
- BioPersi+ can be stored for up to 2 days in recommended conditions.
- Do not expose the bottles to direct sunlight.





RELEASE RATES AND TIMING

- BioPersi+ should be released as soon as spider mites are observed.
- The amount of BioPersi+ to be released is determined by the type of crop, field conditions, level of infestation and damage present in the crops.
- We recommend you consult with BioBee's Field Service Agents.

Scouting and monitoring is crucial.



BIOLOGICAL PEST CONTROL

The effectiveness of BioPersi+ can be assessed three to seven days after the release (depending on weather conditions). The decline in spider mite numbers, dried spider mite carcasses and the presence of BioPersi+ eggs are evidence of their successful establishment.

Biological pest control continues throughout the growing season, as successive generations of BioPersi+ continue to control the spider mite population, providing a long-term solution.

GENERAL COMMENTS

Before combining BioPersi+ with any chemical pesticide in the crop, please consult your BioBee's Field Service representative.

WE HAVE SOLUTIONS



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DISCLAIMER

The success of biological pest control is affected by the crops initial pest population (upon application of the product), weather conditions and chemical residue present in the crop, among other possible aggravating factors.