

BioPersi+

Phytoseiulus persimilis



BioPersi+ contains the predatory mite *Phytoseiulus persimilis*; proven to be an aggressive and highly effective predator of spider mites.

TARGET PESTS

BioPersi+ is target specific, feeding exclusively on red spider mites, two-spotted spider mites (*Tetranychus urticae*) and related spider mites. These predators consume all stages of the pest with predation beginning the day of application. The adult female can consume up to 20 spider mite eggs every day.



Spider mites in strawberries



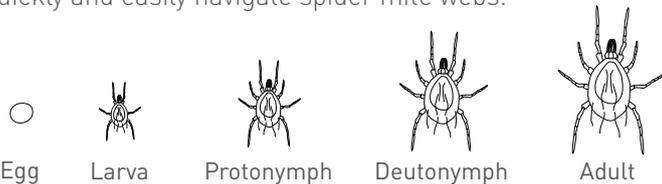
Spider mite hot spot

CROPS

Vegetables, cannabis, ornamentals, strawberries and many other crops.

DESCRIPTION

The adult female is a distinctive reddish-orange color with a pear-shaped body. Its long front legs allow it to move quickly and easily navigate spider mite webs.



BioPersi+ completes its lifecycle from egg to adult in about a week at 21°C - 27°C. It can develop twice as fast as its prey allowing it to suppress mite infestation quickly and thoroughly.

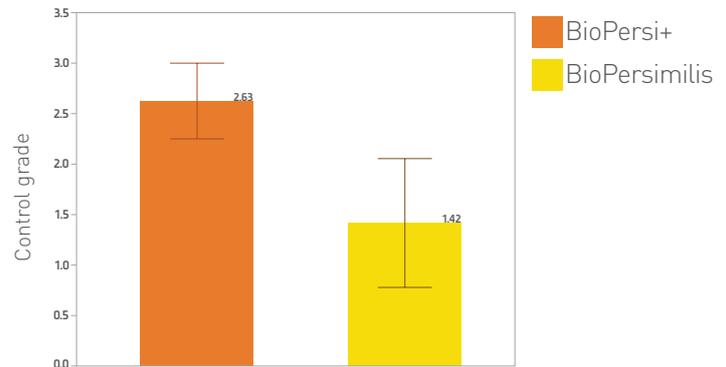
ADVANTAGES

BioPersi+ is produced using a new alternative food system, a true revolution in the mass rearing of *Phytoseiulus persimilis*.

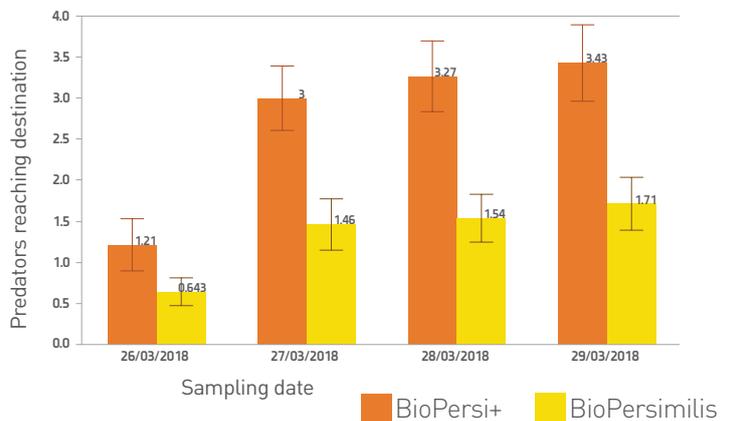
This innovative product contains predators which are initially pale white, but change to the typical reddish-orange once they start feeding on spider mites in the crop.

- The white to red color change confirms active predation.
- BioPersi+ has a higher fecundity than the traditional BioPersimilis: females lay over 19 eggs within 5 days, under given conditions.
- BioPersi+ displays better searching ability and control of hot spots.

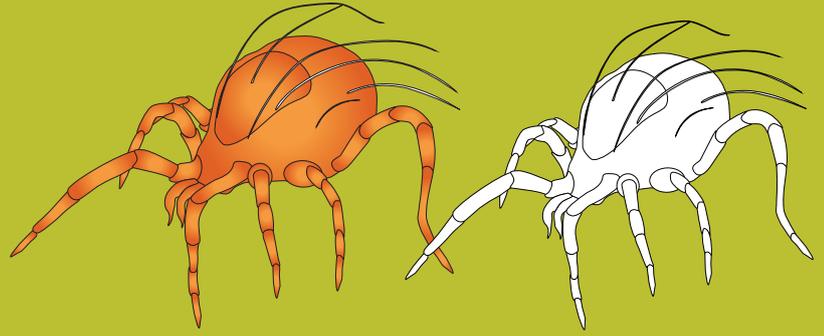
Control Trial



- 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 2K, 4K, 10K or 20K mobile stages (adults and juveniles) as well as eggs, mixed in a sawdust and vermiculite carrier.
- *Carpoglyphus lactis* eggs and mobile stages may also be present, to fortify the BioPersi+ until arrival.



APPLICATION

- The product should be transported to the release site (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 60% relative humidity or more.
- 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.
- 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.
- Please consult with BioBee Technical Representative.

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.

BioPersi+ may establish in some field crops, providing long-term pest control. In other crops, BioPersi+ should be introduced periodically to maintain acceptable pest levels. BioBee provides crop-specific guidance.

GENERAL COMMENTS

Before combining BioPersi+ with any chemical pesticide in the crop, please consult your BioBee Technical Representative.