

Beneficial Insects

TECHNICAL DATA SHEET



PLANTPRODUCTS®



APHIDOLETES-SYSTEM

Aphidoletes aphidimyza

Aphidoletes is a generalist predator which feeds on multiple aphid species. It is predacious in the larval stage. The larvae consume various aphid species. Adults only feed on nectar and pollen. Aphidoletes predate at low pest densities and have very good search behaviour. They deposit their eggs around aphid colonies.

Product Specifications

Commercial name	Specifications
Aphidoletes-System - 2,000	<ul style="list-style-type: none"> • 100 ml bottle: 2,000 pupae • Carrier: sawdust
Aphidoletes-System - 10,000	<ul style="list-style-type: none"> • 500 ml bottle: 10,000 pupae • Carrier: sawdust

Storage

Use immediately upon receipt. If not possible, product can be briefly stored at 43-46 °F (6-8 °C).

Rates

Mode	Dosage	Area	Repeat
Preventative	0.25-0.5 ind./m ²	Full Field	Weekly or Bi-weekly. can be complemented with parasitoid releases
Curative*	0.5-4 ind./m ²	On hotspots	Weekly until control is achieved

*Note: good in support of parasitic wasps

Features

- Adult females actively look for aphids
- Adults lay more than 100 eggs/aphid hotspot
- Larvae start sucking their prey immediately upon hatching
- Up to 80-100 aphids are eaten during the larval stage
- In large aphid hotspots more aphids are killed than needed for consumption

Targets

- Over 60 species of aphids

Crops

- Vegetables / Herbs
- Soft fruits
- Ornamental crops
- Trees and shrubs
- Cannabis / Hemp



Everything you need to grow

APHIDOLETES-SYSTEM

Instructions

Release moment

Start releasing Aphidoletes-System when aphids are expected or first colonies are observed.





Release method

- Release immediately! Adults live only for a few days.
- To open the cardboard tube, turn the dial and push through the plastic cutout.
- Apply large piles onto moist growing media containing about 250 larvae per release point or release in a dark moist place such as a cardboard tube or bucket (Love Shack). Ensure that there are paper fibers, moistened media and a sugar water soaked wick, as this provides energy and a suitable mating place for the adults.

Release conditions

- Adults are active at night and rest during the day
- Aphidoletes-System performs best at a temperature range from 68-79 °F (20-26 °C) and at high humidity (70% RH)
- For egg laying the night temperature must be higher than 59 °F (12 °C).

Life cycle and appearance

Egg	Larva	Pupae	Adult
<ul style="list-style-type: none">• 100-250 eggs (most during the first 4 days)• Oblong (0.3 mm x 0.1 mm)• Within aphid colonies• Hatch within 2-4 days*	<ul style="list-style-type: none">• Young larva: 0.4 mm, light orange• Mature larva: 2.5 mm, orange• Duration: 7-14 days*	<ul style="list-style-type: none">• In the ground• Cocoon covered with sand particles• 1,8 mm - Duration: 10-14 days*	<ul style="list-style-type: none">• Mosquito like• 1.8-3 mm• Long antenna• Life span: 1-2 weeks*
			

*At an average temperature of 68-72 °F (20-22 °C).

- Soil needs to be slightly moist for a successful establishment
- Sulphur affects the survival of adults and larvae
- Degenerans, Swirskii and Orius-System are released in the same crop, as they may feed on Aphidoletes eggs.

Monitoring

Predator presence

- Use a hand lens with a magnification of 10-20x to search for eggs and larvae among the aphids. Full grown larvae are easy to see because of their striking orange colour. Eggs and young larvae are much smaller and pale, making them difficult to see.
- Adults may be seen flying during cloudy days or in the evening. At daytime they remain in sheltered places on the plants or hanging on webs close to the soil. When disturbed they fly up searching for another resting place.

Predation evidence

Aphids are sucked empty, resulting into a shrivelled, black or brown coloured body that is still attached to the leaf with its rostrum.

DISCLAIMER: These are general guidelines. Please read label and product information before use. For questions and/or recommendations, please contact your local advisor.

