

Beneficial Insects

TECHNICAL DATA SHEET



MICROMUS-SYSTEM

Micromus angulatus

Both larvae and adults predate on agriculturally important aphid species. One larva can consume an average of 130 aphids before it enters pupation. One adult can consume up to 100 aphids per day. Female adults lay their eggs low in the plant. The larvae are great prey detectors and are able to crawl upwards on the plant. Female adults can live for up to 70 days and lay up to 1,000 eggs.

Product Specifications

Commercial name	Specifications
Micromus-System - 240 ml ⁽¹⁾	<ul style="list-style-type: none"> • 250 adults • Carrier: Honeycomb paper

⁽¹⁾ Packaging consists of a fully biodegradable carton cup and lid. The bottom is covered with a gel layer that serves as a source of water during transport.

Storage

Use immediately upon receipt. If not possible, product can be briefly stored at 46-50°F / 8-10°C.

Rates

Mode	Dosage	Area	Repeat
Low curative	0.2-0.4 ind./m ²	Full field	2-3 time Weekly
High curative	20-50 ind./plant	Hotspots and surroundings	Weekly

Features

- Brown lacewing
- Both larvae and adults are voracious predators of aphids
- Apart from aphids, they can also prey upon other soft bodied arthropods such as mealybugs
- Adults are very robust; they can develop in colder temperatures, they survive at low prey availability and have a long lifespan
- Low rates of cannibalism; prey sharing can occur when aphid pressure is low

Targets

- Aphids

Crops

- Vegetable
- Soft fruit
- Ornamental
- Medicinal cannabis



Everything you need to grow

MICROMUS-SYSTEM

Instructions

Micromus-System can be used in both full field and hotspot treatments. For a full field treatment, open the cup at the end of a row (with a history of infestation) on the façade side and move towards the beginning of the row, while holding the cup close to the canopy of the crop. Take the pieces of honeycomb paper from the cup and place in the crop to introduce more individuals. The 100% biodegradable cup can be left in situ and cleaned out together with the plants at the end of a crop cycle.

M. angulatus can complete its development in temperatures as low as 50°F / 10°C. The activity decreases at temperatures higher than 95°F / 35°C. The optimal temperature for both the larvae and the adults to perform is between 59°F / 15°C and 79°F / 26°C.

Micromus-System is compatible with and complementary to existing commercial solutions for aphid control. Combine with parasitoids, hoverflies, Aphidoletes-System or Chrysopa-(E)-System to reduce the number of aphids even more drastically.





Timing of Application

Release Micromus-System at the first signs of aphids. As the adults are nocturnal, it is advised to introduce late in the afternoon or early in the evening.

Monitoring

- The efficacy can be checked by observing a reduction in pest population, reduced hotspots, and healthy plant growth, free of honeydew or sooty mould.
- The larvae can be easily observed, preying within the aphid colonies, frequently several larvae sharing the same aphid. Pupae can be seen on the underside of a leaf, close to a leaf vein.
- Adults are nocturnal and will therefore be more difficult to observe. Their presence can be assured by observing dark brown drops on the leaves (=faeces).
- Attacked aphids can be recognised by their shrivelled and desiccated appearance.

Life cycle and appearance

Egg	Larva	Pupae	Adult
<ul style="list-style-type: none">• Oval shaped• Pale white to brown color• 0.94 mm long• Deposited without stalks, separately or in groups• Duration: 6 days*	<ul style="list-style-type: none">• 3 larval stages• Brown color• Pair of pincer-like mandibles• Black marking on abdomen• 2-10 mm long• Duration: 7 days*	<ul style="list-style-type: none">• Circular, silk-like cocoon• Pupa is mostly visible inside cocoon• 6 mm long• Duration: 7 days*	<ul style="list-style-type: none">• Light brown color• Long, transparent, fineveined wings• Long antennae• 8 mm long• Pre-oviposition period: 7 days*• Lifespan: 10-12 weeks*
			

*At an average temperature of 24°C / 75°F and a RH of 70%

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