



ATHETA-SYSTEM

Dalotia coriaria

Adult and larvae reside in the growing media. Adults are good flyers and disperse with ease over large distances searching for food. The rove beetle larvae and adults are strongly attracted to decomposing plants, organic material or algae where their prey are found. Atheta mainly preys on shoreflies, fungus gnats and thrips pupae in the soil among others.

Product Specifications

Commercial name	Specifications
Atheta-System - 1,000	<ul style="list-style-type: none"> • 1 L tube: 1,000 beetles • Carrier: mixed peat
Atheta-System - 3,000	<ul style="list-style-type: none"> • 5 L bucket: 3,000 beetles • Carrier: mixed peat

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
Preventative	0.5-2 ind./m ²	Full field	At propagation. Repeat at transplanting
Curative	2-4 ind./m ²	Sensitive crops Hot spots	As needed

Features

- Soil dwelling rove beetle, flying predator
- Very well adapted to various growing media
- Larvae and adults are fast and voracious
- Consumes high numbers of prey per day (10-20)
- Well suited to conditions in propagation

Targets

- Larvae of fungus gnats
- Larvae of shore flies
- Thrips pupae
- Eggs and young larvae of Duponchelia moth
- Root aphids

Crops

- Vegetables / Herbs
- Potted plants
- Bedding plants
- Nurseries
- Cannabis / Hemp



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Instructions

Application

- Warm the tube to room temperature, keeping it in a horizontal position.
- Before applying, gently roll or rotate the container a few times, so that the predators are evenly dispersed within the carrier.
- Product comes in tubes and buckets, apply accordingly:
 - To open the cardboard tube, turn the dial and push through the plastic cutout.
 - To open the bucket, pull on the plastic strap to remove it and open the lid.
- Apply large piles onto growing medium. (It does not need to be applied to each plant or pot because adults fly!)
- Divide 1 package of 1000 into 25-50 piles

Timing of Application

- At propagation and nurseries on trays or pots
- At transplanting on growing media or pots

Release conditions

- Active in soil or growing media
- Efficient at a temperature range of 53-95°F (12-35°C)
- Larvae of the rove beetle will not develop into pupae in absence of prey
- Suitable for mixed peat, cocos peat and rock wool with moisture level of 50-80%

Monitoring


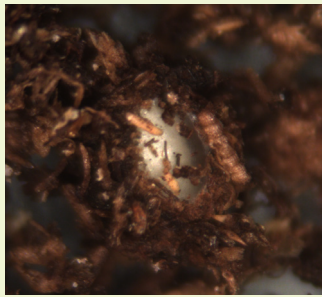

Predator presence

- The first evidence of presence can be observed 3 weeks after releasing
- Active adults and larvae can be seen/observed by disturbing the top layer (1-2 cm) of the soil or growing media

Predation evidence

- Observe prey reduction by placing fresh slices of potatoes on the soil or growing media, to attract and monitor the larvae of fungus gnats and shore fly on the potato slices
- Declined prey captures on sticky traps are visible after 4-6 weeks

Life cycle and appearance

Egg	Larva	Pupae	Adult
<ul style="list-style-type: none">• Oval• 1 mm• Covered with soil particles• 90 eggs during 2 weeks• Hatch within 2-3 days*	<ul style="list-style-type: none">• Oblong• 4 mm• White-yellow to cream• 3 pair of legs• Wingless• Duration: 7-9 days*	<ul style="list-style-type: none">• Cocoon of silk strands and soil particles• 2 mm• Duration: 5-8 days*	<ul style="list-style-type: none">• Slender• Shiny, dark brown• 3-4 mm• Abdomen curved upwards• Life span: 6-7 weeks*
			

*72-75°F (22-24°C)

