



Hypoaspis nymphs, larvae, and adults feed on soil-dwelling pests. Each mite can eat up to 5-8 prey per day. Females lay their eggs in the soil. They can survive on algae and plant debris in the absence of prey. Hypoaspis contributes to reducing the number of thrips by preying their pupae in the soil. They can survive for long periods of time without food (up to 7 weeks).

### Product Specifications

Commercial name	Specifications
Hypoaspis-System - 25,000	<ul style="list-style-type: none"> <li>• 1 L tube: 25,000 mites</li> <li>• Carrier: vermiculite, peat and factitious prey</li> </ul>
Hypoaspis-System - 125,000	<ul style="list-style-type: none"> <li>• 5 L bucket: 125,000 mites</li> <li>• Carrier: vermiculite, peat and factitious prey</li> </ul>

### Storage

Use immediately upon receipt. If not possible, product can be briefly stored in a dark room with enough ventilation. Store Hypoaspis-System at a temperature of 59-64°F (15-18°C).

### Rates

Mode	Dosage	Area	Repeat
Low curative	100-200 ind./m <sup>2</sup>	Full Field	Once at propagation Repeat at transplanting
High curative	200-500 ind./m <sup>2</sup>	Hotspots and surroundings	As needed

## HYPOASPIS-SYSTEM

*Stratiolaelaps scimitus*

### Features

- Predatory mite
- Inhabits the top layer of the soil
- Feeds on harmful soil-dwelling pests such as Fungus gnat larvae, Thrips pupae and European pepper moth eggs.
- Easily survives without prey for several weeks

### Targets

- Fungus gnats
- Thrips
- European pepper moth

### Crops

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



# HYPOASPIS-SYSTEM

## Instructions

### Timing

Apply preventatively. Increase rates at first signs of pests or damage to the plant

### Release method

- 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 mites 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.
- Broadcast material or apply in 1 tsp piles onto the ground, growing medium or pots you wish to treat.
- Hypoaspis does not fly, so spreading them out evenly is key.
- Hypoaspis can survive without pests for up to 7 weeks.

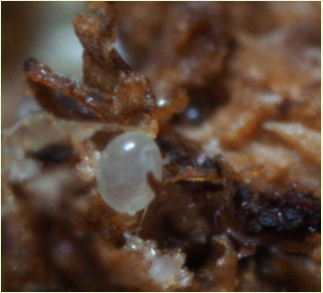



## Release conditions

Year round releases are possible when temperatures are  $>50^{\circ}\text{F}$  ( $10^{\circ}\text{C}$ ). *S. scimitus* prefers a relative humidity of  $>70\%$ . Therefore the soil should be moist and must not dry out during treatment (if necessary, first moisten). Wet spots as well as the growth of algae in the compost should be prevented, as they could promote the development of fungus gnats. This predatory mite is most effective at low pest density. Complement with nematodes (EPNs) and Bug-Scan® for a quick knock down. *S. scimitus* can live up to 7 weeks in the absence of food.

## Monitoring

- Removing plants from pots often reveals *S. scimitus* populations. Individuals may also be observed by disturbing the top layer (1-2 cm) of the soil.
- Eggs are only visible with a microscope, while adults and juveniles are visible with the naked eye.
- Pest reduction can be monitored using sticky traps.

## Life cycle and appearance

Egg	Larva	Pupae	Adult
<ul style="list-style-type: none"><li>• Translucent appearance</li><li>• Hatches in 2-3 days*</li></ul>	<ul style="list-style-type: none"><li>• 3 pair of legs</li><li>• Translucent appearance</li><li>• Duration: 1-2 day*</li></ul>	<ul style="list-style-type: none"><li>• 4 pair of legs</li><li>• Translucent to white appearance</li><li>• Duration: 4-6 days*</li></ul>	<ul style="list-style-type: none"><li>• Oblong shaped</li><li>• White to brown color</li><li>• 1 mm long</li><li>• Females lay 1-3 eggs/day</li><li>• Lifespan: several months*</li></ul>
			

\*At an average temperature of  $73^{\circ}\text{F}$  ( $23^{\circ}\text{C}$ ).

