SUSTAINABLE CROP MANAGEMENT

ADALIA-SYSTEM
ADALIA-E-SYSTEM

TECHNICAL DATA SHEET

What is Adalia-(E)-System?

- Two-spotted ladybird
- *Adalia bipunctata*
- Biological control of all aphid species at all stages
- Highly voracious
- Both larvae and adults are effective predators
- Also efficient against smaller organisms such as spider mites and mite eggs
- Can be used at high prey density

Mode of action

- Both larvae and adults are predators of many aphid species
- After eating its own egg shell, the young larva will immediately seek for prey
- *A. bipunctata* will predate on all aphid stages
- One larva or adult can eat up to 100 aphids per day
- Females can lay more than 1.000 eggs, on average around 20 eggs per day

Product specifications

Product	Package size	Package content
Adalia-System 100	280 ml tray	100 larvae(1)
Adalia-E-System 100	30 ml plastic tube	100 eggs(2)

(1) On a carrier of buckwheat husks/(2) On a carrier of shredded paper

Targets

- Aphids

Crops

- Vegetable crops
- Fruit crops
- Ornamental crops
- Public green

Storage

Use immediately upon receipt. If not possible, product can be stored for 1-2 days, in a dark place, at 8-10°C/46-50°F. Always respect the use-by-date.

Dose rate

Mode	Dosage	Area	Repeat
Preventative	-	-	-
Low curative	5-10 ind./plant	Hot spots and surroundings	Once Weekly
High curative	10-20 ind./plant	Hot spots and surroundings	2 times Weekly
Trees & bushes	200 ind./ø 30 cm trunk	In the crown	Once Weekly

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Application

Release moment

Introduce *A. bipunctata* at the first signs of aphids.

Release method & conditions

Introduce *A. bipunctata* in the center of aphid hotspots, or spread evenly through the crop. Releases on leaves are possible. The use of the Bio-Box is recommended. Divide the product homogeneously over the Bio-Boxes, respecting the advised dose rates, and hang out over the infested area.

A. bipunctata is active in a temperature range from 13°C/55°F up to 35°C/95°F and a relative humidity of 30% to 90%. The optimal conditions however are between 24°C/75°F and 28°C/82°F and a relative humidity between 70% and 80% .

Life cycle and appearance

Egg	Larva	Pupa	Adult
- Yellow to orange color - Ovoid shaped - In clusters - Duration: 4-5 days*	- Grey to black color with yellow and white spots - Elongated shape - 3 pairs of legs - Duration: 7-9 days*	- Orange to yellow color with dark spots along abdominal segments - Cylindrical shaped - Covered with fine setae - Duration: 5-6 days*	- Two phenotypic variations: (1) black form with two red spots and (2) red form with two black spots - Lifespan: 60-90 days*
			

*In case of an average temperature of 23 °C/73.4 °F.

Monitoring

- After 1-2 weeks *A. bipunctata* larvae should remain visible in the crop, and no more expansion of aphid hotspots should be observed.
- Ants will reduce the efficacy of *A. bipunctata*. Eliminate ants by using glue barriers or ant lures.
- If food is scarce, cannibalism may occur.

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