

ATTENTION:

The file of our catalog you are about to view is for product reference only not current pricing.

The prices contained on the following catalog pages reflect the current pricing at the time of printing. (12/09)

When placing an order, please make sure to check with the Griffin representative as to the current prices.

Thank you,



Biological Controls for all your growing needs!



A Complete Range of Products for Integrated Crop Protection in Horticulture

ATHETA-SYSTEM (*ATHETA CORIARIA*)

(Fungus Gnat and Shore Fly Predator)
Atheta remain predators during all stages of their development, controlling harmful soil insects as well as Western Flower Thrips. Atheta are fast moving, quick to populate and because of their flight capability they ensure good distribution.

APHIDIUS-SYSTEM (*APHIDIUS COLEMANI*)

(Aphid Parasite)
Aphidius is a small wasp that parasitizes adult aphids and nymphs. It is an excellent hunter, and can locate small colonies when aphid populations are low. Aphidius Colemanii is ideal for a preventative approach such as with the banker system.

AMBLYSEIUS-SYSTEM (*AMBLYSEIUS CUCUMERIS*)

(Thrips Predatory Mite)
This small yet highly mobile predatory mite is highly effective against Western Flower Thrips, Cyclamen and Broad Mites.

ENCARSIA-SYSTEM (*ENCARSIA FORMOSA*)

(Whitefly Parasite)
These are effective against Greenhouse Whiteflies. (*Trialeurodes vaporariorum*).

MUNDUS-SYSTEM (*ERETMOCERUS MUNDUS*)

(Whitefly Parasite)
Specialized Parasitic Wasps effective against Bemisia Whitefly. Available loose or on cards.

HYPOASPIS-SYSTEM (*HYPOASPIS MILES*)

(Fungus Gnat Predator)
Hypoaspis is a small predatory mite that inhabits the top layer of soil and feeds on fungus gnat larvae. It can also feed on springtails. It can survive up to seven weeks without food and is most effective when used preventatively (low fungus gnat population) but can also be used curatively either alone or in combination with the nematode, *Steinernema feltiae*.

ORIU-SYSTEM (*ORIU INSIDIOSUS*)

(Thrips Predator)
This is the only predator that attacks both adult and larval thrips. Also consumes aphids, spider mites and moth eggs.

PHYTOSEIULUS-SYSTEM (*PHYTOSEIULUS PERSIMILIS*)

(Spider Mite Predator)
For control of Two-Spotted Spider Mite on Greenhouse vegetables and ornamentals.

STEINERNEMA-SYSTEM (*STEINERNEMA FELTIAE*)

(Fungus Gnat Predator)
Steinernema feltiae is a parasitic nematode of fungus gnat larvae and thrips pupae. This nematode actively seeks out larvae to infect; once inside it releases symbiotic bacteria which eventually kill the larvae. The nematode reproduces inside the larvae and when the larvae decomposes a new generation of nematodes is released to search out new prey.

Is the time right to consider biocontrols? Consider the following:

- No worker protection standards means no REI's.
- "Greener" more sustainable approach to pest control
- Avoid unwanted side effects of pesticide applications
- Reduce pesticide resistance pressure

Many of the newer pesticides are softer and compatible with certain biological control agents.

(Check <http://207.5.17.151/biobest/en/neven/default.asp> before using.)

The use of banker plants and trap crops have allowed for improved performance of biological control agents.

Other beneficials are available from Plant Products, including Pollination from Bumblebee hives.

Contact Griffin for more information on these products: **1.800.888.0054**

Atheta coriaria



Eretmocerus mundus



Hypoaspis miles



Orius insidiosus



Steinernema feltiae



Phytoseiulus persimilis





Innovators in ICM

Syngenta Bioline is dedicated to the production of premium quality beneficial insects and mites with unique delivery systems for use in vegetables, fruit, flowers and ornamental crops. We believe in delivering innovative growers solutions through Integrated Crop Management techniques.

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Controlled Release Bugline

For Effective Greenhouse Pest Control

- Continuous emergence 24/7 for improved control
- Assures equal distribution of predators
- Allows for preventative control
- Water resistant design allows for use in overhead irrigation programs
- Amblyseius andersoni - mite control, up to 4 weeks
- Amblyseius cucumeris - thrips and spider mite control, up to 6 weeks
- Amblyseius swirskii - whitefly and thrips control, up to 4 weeks



Mini Sachet

- Easy application
- More release points-better establishment



Gemini Sachet

- Water proof-ideal for overhead irrigation systems
- Delivers more mites under wet conditions
- Patented design

CRS - Controlled Release Sachets

For Effective Spider Mite, White Fly & Thrips Control

- Available as mini sachets, and the water proof Gemini sachet
- Breeding system provides large numbers of mites over time; and makes preventative control possible
- Easy to distribute, allows for more release points and better protection
- Continuous emergence 24/7 for improved control
- Amblyseius andersoni - mite control, up to 4 weeks
- Amblyseius cucumeris - thrips and spider mite control, up to 6 weeks
- Amblyseius swirskii - whitefly and thrips control, up to 4 weeks

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Innovators in ICM

Blister Pack System

For Effective White Fly and Aphid Control

- Novel delivery system for controlling whitefly and aphids
- Improved efficiency, ease of use and labor savings
- Eretmocerus eremicus and Encarsia formosa- whitefly parasitoids
 - Controls both greenhouse and tobacco whitefly
 - Good host finding behavior
- Aphidoletes aphidimyza - aphid predator
 - Controls multiple types of aphids
 - Improved predator establishment compared to loose product



Thripline

Thrips Control Has Never Been So Easy

- Pheromone system that works by emitting a mating signal to Western Flower Thrips (WFT)
- Lures both male and female WFT; thrips in the crop move to the top looking for mates
- Detect populations of thrips more effectively than sticky cards alone



Hypoline & Staphyline

Most feared combination by fungus gnats and shore flies

Hypoline m - Hypoaspis miles

- Contains all stages of the predatory mite for quick establishment and survival
- Soil dwelling predator attacks the young fungus gnat larvae, will also consume thrip larvae that drop from the plant
- Available in shaker tube and bulk bag

Staphyline c - Atheta coriaria

- Contains all stages of the rove beetle
- Controls fungus gnat larvae, shore flies and Duponchelia
- Atheta are very mobile and distributes itself throughout the greenhouse

