Easy and quick to apply and effective against the pest.

Magnet™ MED reduces more than 60% of the application time compared to conventional Mass Trapping systems, reducing application labour costs. Its field duration allows application prior to the period when fruit is more susceptible, increasing the pest-

Characteristics

- · In contrast to conventional treatments, this system has been developed to be active in the field for long periods:
- This allows early control of Medfly, decreasing the population before the fruit be-
- This also allows which reduces overwintering populations and initial pest pressure the next year.
- · Patented powerful attractants (BioLure® Unipack).
- · Absence of direct contact between the insecticide and the fruits, and the devices are easy to remove from the field.
- · Easy to integrate within MedFly control strategies.
- · Ready-to-use devices.
- •Officially approved for organic fruit production (EU directive 2092/91 Annex II).

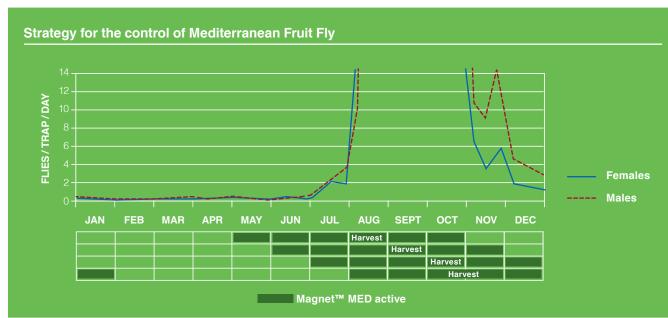
Application

- · Apply at a rate of 50 (in citrus) to 75 (in stone fruits and grapes) devices per hectare
- · Efficacy may improve in areas of high populations if a greater number of devices

Deployment

- ·The device includes a hook at the top for easy placement in branches. Devices should be hung as high as practical on the sunny side. Choose a strong branch which is not likely to break or be pruned before the end of the season Ensure the device is securely hooked onto the branch.
- · Avoid placing the device near or above developing fruit to avoid direct contact











SUTERRA EUROPE BIOCONTROL

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Get rid of the Mediterranean Fruit Fly with Magnet™ MED.

Protection and Efficacy in one step.





For more information visit www.suterra.com

What is Magnet™MED?

Magnet™ MED is a system for the control of the Mediterranean Fruit Fly, Ceratitis capitata, or Medfly, lasting at least six months. It consists of a laminated device with built-in hook. The external surfaces are impregnated with an insecticide formulation but leaving an insecticide-free surface for manipulation. A lure with specific attractants for Ceratitis capitata (BioLure® Unipack) is placed inside the device, releasing the attractants though holes located in each side of the device.

Persistence of the Deltamethrin

in the feart lasts of board at a month

Persistence of the attractants

Use plant protection products safely. Always read the label and product information before use

The insecticide is a special formulation of delthamethrin whose advantages include:

- Strong initial effect during the short period of contact
- Potent low-dose insecticide with long residual effect
- Highly stable formulation
- High persistance
- Resistant to rainfall washing
- Environmentally friendly Permitted in European organic orchards
- (EU Directive EU 2092/91)

Magnet™ MED Advantages compared to other devices:

Magnet™ MED

- · Compact design and light weight
- Easy to transport
- · Easy to apply
- Setup and deployment
- time of 30 minutes per ha Quick hanging, and ready
- Device design allows for a controlled release rate of the attractant

Other devices

- · Bulkier and heavier
 - Difficult to transport and
 - · Difficult to manage · Setup and deployment
 - time of 80 min per ha · Conventional hook

Magnet[™] MED not only protects the crop during its period of susceptibility but also affects the pest for approximately six months, reducing the population from one season to the next. Other systems fall short by only protecting crops during their peak of susceptibility

The problem: the Mediterranean Fruit Fly. The solution: Magnet™MED.

The Mediterranean Fruit Fly is a key pest of citrus, stone fruits and table grapes throughout the Mediterranean region, Africa, Central and South America and Western Australia.

be expensive, slow to act, and complicated.

The Magnet[™] MED Attract and Kill (A&K) system offers a new technology for management of the Mediterranean Fruit Fly that is also acceptable in organic production.

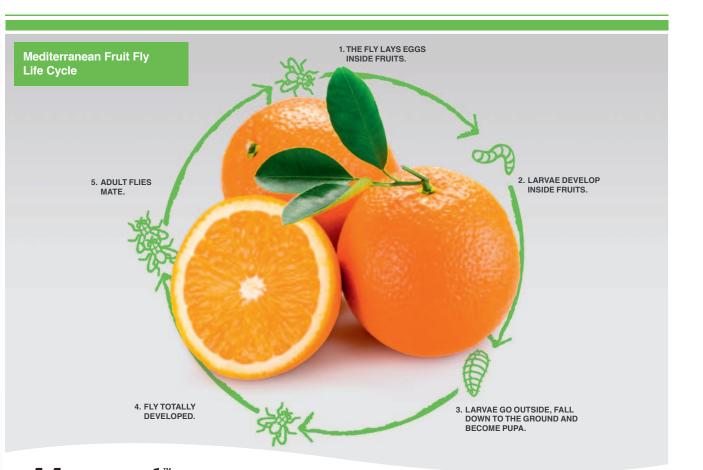
Magnet™ MED is a novel product that is intended for use as part of an integrated control strategy. The device is hand-applied to crops and each device combines long-life attractants with an insecticide formulation for season-long control.

Mass trapping applied by conventional products is effective but can Attractants lure male and female Medflies to the insecticide treated surface, reducing the need for overall insecticide use and controlling the pest without the risk of insecticide contamination of the fruit and minimising the damage to the environment.

> Magnet™ MED can be applied to any crop, including organic, and only a single application per season is required. The application not only protects during the period of greater susceptibility, but also fights the pest for a much longer period. Due to its design, Magnet™ MED is easy and quick to deploy.

Pest Characteristics

- The target stage for the control of the pest is the adult because the larvae and pupae are protected, either within the fruit or on the ground.
- The emergence of the adults is higher in high temperature weather conditions.
- Oviposition takes place under the epidermis of the fruit, and the eggs hatch after 1.5 to 3 days.
- · Larvae feed and develop within the fruit, making it non-marketable. Once fully developed, they drop to the ground were they pupate. In summer a generation takes place in 4 weeks.





Efficacy in two steps: first lure the fly, then kill it.

Magnet™ MED includes patented Medfly food attractants, ammonium acetate, putrescine and trimethylamine hydrochloride. The BioLure® Unipack, is patented by Suterra® LLC and the USDA, and Suterra® LLC has the commercialization rights worldwide.

The entire device acts as a controlled release mechanism, releasing the attractants for a period of at least six months.

Adult Medflies of both sexes, **mainly females** (70%), are attracted to the device and when they land on its surface, they are killed by the insecticide.

Its effectiveness is supported by a large number of field trials conducted over the last five years in the Mediterranean Region, mainly in Italy, Spain and North Africa. Hook for quick and durable deploymentt

Light and resistant Integrated format

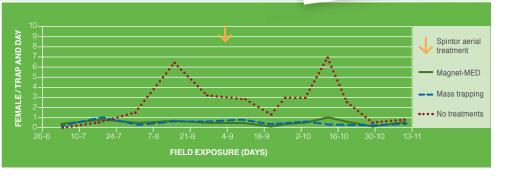
(device + attractant) Holes for controlled

released of attractants

Captures

MedFly population

As Mass trapping as well Magnet™ MED achieved a significant population reduction in trials conducted in clementine orchards.



Comparison of fruit damage according to the control system

The long life of Magnet™ Med (six months) allows for earlier and long-lasting applications. This not only improves the efficacy during the period of susceptibility of the fruit, but also affects the population of Medfly after harvest, reducing the population level from one season to the next one.

ontrol system	Rate	Site	Year	Crop	% Damage
agnet Med ass trapping with liquid lure	50 120	Murcia, Spain	2009	Citrus	4,5 a 4,7 a
agnet Med ass trapping with liquid lure	50 120	Murcia, Spain	2009	Citrus	0,12a 0,03a
agnet Med asstrappingwithBioLure®Unipack	50 50	Murcia, Spain	2009	Citrus	0,15 a 0,0 a
agnet Med+insecticide nemical treatment	50+2 7	Portugal	2009	Citrus Mariso variety	0,8 a 2,0 b
agnet Med ass trapping with liquid lure	50 120	Murcia, Spain	2009	Grapes	0,0 a 0,22 b
agnet Med nemical control ntreated	50	Agadir. Morocco.Citrus	2009	Citrus	0,01a 1,97 b 9,2 c
agnet Med nemical control ntreated	50	Kentira, Moroccot	2009	Citrus	0,9 a 5,8 b 20 c
agnet Med nemical control	75	Italia	2009	Peach	1,5 a 6,9 b
agnet Med pintor	50	Valencia, Spain	2010	Citrus Mariso	ol 0,13a 0,28a
asstrapping withBioLure®Unipack	50				0,28a
agnet Med	50	Valencia, Spain	2011	Citrus Mariso	ol 0,04 a 0,03 a
ass trapping withBioLure®Unipack	50	% Damage: Different lette	re demons	trate significantly d	0,03 a