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CATALOGUE 2024







PROFESSIONAL AGRICULTURE

CATALOGUE 2024

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GEA's inFarm® - Isagro Phero Line® provides a complete, targeted and sustainable range to meet the changing needs of modern professional agriculture, combining high effectiveness and practicality with sustainability.

Changing flight patterns of the principle phytophagous pests, the continuing danger from the introduction of alien species and the need to reduce reliance on synthetic insecticides are just some of the most important challenges to modern agriculture.

We aim to respond to these issues by bringing innovation and research to the service of the farmer in the management of pests, while intercepting their periodicity and mutations. We provide useful tools for the monitoring of insect flights, helping technical staff with the intervention thresholds for field treatment and enabling them to set up and implement integrated and targetted pest management.

We are also committed to developing sustainable biocontrol solutions to ensure significant reductions in the chemical impact of synthetic insecticides, using such strategies as sexual disorientation, as exemplified in the Ecodian® line.

Our in-house research and collaboration with universities and research institutes puts us at the forefront for the development of original solutions designed to defend crops against increasingly diffuse alien species.





ENVIRONMENTAL IMPACT

We produce responsibly with the aim of impacting the environmental as little as possible, from the production processes employed to the choice of materials.

RAW MATERIALS

For the development of increasingly sustainable farming, we select environmentally friendly materials, such as the compostable bioplastic dispensers used in all of the Ecodian® line.

QUALITY

GEA has always been particularly attentive to the quality of its products, assuring continuous improvements in terms of effectiveness, efficiency and durability of all products.

OUR CERTIFICATIONS







UNI EN ISO 9001:2015

Quality management systems

UNI ISO 21001:2018

Management Systems for Organisations education and training organisations

ISO 45001:2018

Occupational Safety & Health Management System

UNI EN ISO 14001:2015

Environmental management systems



TRAPS MONITORING AND MASS CAPTURE

inFarm – Isagro Phero Line® offers a wide range of traps that, combined with more than 100 different pheromone essences, enable the farmer to monitor or to control the major pests of agricultural crops. The traps are divided into those designed for population monitoring and those specifically made for mass trapping.

MONITORING TRAPS:

allow the insect's flight curves to be monitored in order to identify the right moment to intervene with an insecticide. They are also valuable in combination with the 'Ecodian®' sexual disorientation system to ensure that the orchard continues to be protected.

MASS TRAPPING DEVICES:

The aim is to directly control a harmful species through the use of traps that can catch large numbers of insects. Such a method will not eliminate all of the individuals, but will limit the population.

PHEROMONES

Pheromones are natural chemical messengers used in the interactions of many animals, and particularly insects. Isagro pioneered the study of insect sex pheromones by using them in the various technologies such as defence by disorientation, monitoring with special traps and mass trapping.

"Pheromone and attractant traps must be part of a broader integrated pest management strategy. From this perspective, pest monitoring is one of the tools available a v a i l a b l e in the support of decision-making and can in no way replace all the other tools available to the farmer: field visits, damage surveys, phytosanitary bulletins and forecast models. Traps and dispensers must be maintained in good nd efficient condition. Gea srl declines liability for any improper use of the products. In any case, for correct use of the products, please refer to the instructions booklet."

ECODIAN[®]

SEXUAL DISORIENTATION TECHNIQUE

'Mating disruption' is a technique used in the integrated control of populations of phytophagous insects that can harm agricultural crops.

Specific pheromones are used that prevent the opposite sexes from meeting, thus interrupting the generative cycle of the target insect.

The method is an alternative to chemical pest control and is a valid inclusion in all low environmental impact integrated production and organic farming. Moreover, by using pheromones selected for a particular species, it does not disturb other useful insects such as pollinators and natural predators.

Among the mating disruption tools, ECODIAN® technology is based on the use of 'sexual disorientation'. This technique, compared with other methods, uses a very low amount of pheromone to create 'false trails' that the male insect follows in a vain attempt to find the female.

The 'disorientation' does not saturate the environment, adapts well even to smaller plots and does not risk the emergence of resistance from the insect that might otherwise adapt and render the system less effective.





There are 2 types of **ECODIAN®** products:



ECODIAN[®] hook:



ECODIAN[®] thread: tall trees.

All ECODIAN® product pheromone dispensers are made of biodegradable and compostable MATER-BI plastic that does not release persistent microplastics into the environment.

these are hook-shaped pheromone dispensers hung on the branches of trees in the orchard.

is a pheromone-soaked thread that is strung along the rows of the target crop or hung from





BACTROCERA DORSALIS CARPO E CARPO+ CYMATRAP[®] GARDEN MASS® MASS[®] LARGE OLIVE ROOF TRAPTEST® wing evo NEW cromo square NEW **BLUTRAP[®]** GOLDENTRAP® BLUTRAP[®] ROLL GOLDENTRAP[®] ROLL LYGUSTRAP DROSATRAP

aponica



BACTROCERA DORSALIS

A McPhail-type trap, particularly suitable for monitoring and mass trapping of dipterans.



TARGET PEST Batrocera dorsalis

Dallocola doloa

CULTIVATION

Fruit growing and viticulture

MONITORING PERIOD

MONTHS Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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BACTROCERA DORSALIS WITHOUT PHEROMONE is a trap that captures adults of various species of Tephritid Diptera, that can also be used in combination with pheromones and attractants.

BACTROCERA DORSALIS is a trap for adults of the Oriental fruit fly, a polyphagous insect with incredible biotic potential due to its numerous annual cycles and high oviposition.

The attractiveness of the methyleugenol-based dispenser contained in a protective capsule and the plastic structure enable effective trapping and precise monitoring of the species.

The duration of delivery is about 40 days.

TIPS FOR USE

Suspend the trap 1.5-2 metres above the ground preferably in shaded areas. To improve the effectiveness of the trap, it is recommended to add a soap and water or oil solution.

PACKAGING	CODE	CONTENT
BACTROCERA DORSALIS	P-25010INFDACUDO	 Mc Phail-type trap modified with interlocking elements. 3 methyleugenol attractant dispensers.
PACKAGING	CODE	CONTENT
BACTROCERA DORSALIS WITHOUT PHEROMONE	P-25010INF	1 Mc Phail-type trap modified with interlocking elements.



CARPO e CARPO+

Specially designed pheromone traps for monitoring *Cydia pomonella*.

TARGET PESTS

Cydia pomonella (Codling moth)

CULTIVATION

Fruit growing and viticulture

MONITORING PERIOD

MONTHS Jan, Feb. Mar. Apr. May June Lug. Aug., Sep. Oct. Nov.	MONTHS	n. Feb.	an. Feb. Ma	r. Apr.	Mav	June	Lua.	Aua	Sep.	Oct.	Nov.	Dec.
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CARPO is a box-shaped trap with a removable inner glued bottom, designed for most effective attractiveness. The pheromone must be replaced every 4-5 weeks.

CARPO+ is an open pagoda-shaped trap that is extremely selective and protected. The removable glued bottom does not get dirty.

CARPO+ increases the attractive power of the long-lasting pheromone dispenser to up to 180 days'.

TIPS FOR USE

Set three **CARPO** and **CARPO+** traps per hectare before the start of the flights of the overwintering generation. In plots that are larger than one hectare, calculate 3 traps for the first hectare and one trap for each additional hectare. Check traps weekly or more frequently if necessary.

	PACKAGE	CODE	CONTENT
	CARPO	P-25005INFCARPPO	1 trap: 3 pheromone dispensers 3 glued bottom
-	PACKAGE	CODE	CONTENT
Á.	CARPO+	P-25006INFCARPPO	1 trap: 1 long-lasting pheromone dispenser
\bigcirc	PACKAGE	CODE	CONTENT
	FONDI COLLATI	P-25006INFREF	20 glued bottom



CYMATRAP[®] GARDEN

Pheromone trap for the monitoring of the Marmorated stink bug (Halyomorpha halys). Recommended for hobby use

TARGET PESTS

Marmorated Stink Bug (Halyomorpha halys)

CULTIVATION

Herbaceous, industrial, ornamental. Fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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CYMATRAP® GARDEN is the recommended trap for domestic/hobby use in vegetable gardens, small orchards and gardens. The pyramid shape is specially designed to effectively catch adults and nymphs. The dimensions are 45 cm

high and 16 cm on the base sides.

TIPS FOR USE

CYMATRAP® GARDEN is a valuable tool for controlling the stink bug population in three ways:

1. Intercepting of overwintering adults leaving their winter sites and monitoring their return to the field.

2. Through its unique pyramid shape that favours the capture of juvenile stages, which, unable to fly, climb the vertical panels until they finish up the inside of the container. Monitoring the presence of nymphs provides fundamental information that makes timely action possible to limit the spread of the species, as nymphs are more sensitive to insecticides than adults.

3. At the end of the season, CYMATRAP® GARDEN intercepts and blocks adults that tend to take refuge in winter diapause crevices. The trap can be used both for monitoring and for mass trapping of the insect. For areas such as those of gardens and kitchen gardens, monitoring of the bug population can be carried out using 1 or 2 traps. If the traps are used to limit the development of the stink bug through mass trapping, it is necessary to install the traps to cover the entire area concerned, considering a maximum distance between traps of 20 metres and a distance between building entrances of 6 metres.

For proper monitoring, install three traps less per hectare from March until September/October. Check the insect catches on a weekly basis. Over-wintering insects initially respond little to pheromones because they are more interested in finding food. After this initial phase, which lasts a few weeks, their physiology changes and the pheromones begin to exert greater influence on behavior, which reaches its maximum on juveniles (neanids). The number of catches can vary depending on many factors; the best results are usually seen from mid-July onwards.

connection with the ground, so that the nymphs can climb over the trap and enter the jar containing the pheromones.

It is recommended to place CYMATRAP[®] GARDEN in the areas of the farm most favourable to the development of Halyomorpha halys, particularly in the crop perimeter areas located near hedges and buildings. Provide additional traps on any sides or points at risk. Replace dispensers every 8-9 weeks. Warnings: Use traps outdoors only.





Nymphs do not fly, but only crawl, so it is important to place the base of the trap on the ground or on fences or other structures in direct

CONTENT

- 2 yellow rigid plastictriangles
- 1 yellow entry cone
- 1 collecting jar

Halvomorpha halvs

- 1 elastic band to secure the trap
- 2 anchoring pegs
- 2 aggregation pheromone dispensers, enclosed in saled envelope
- 2 dispensers of attractant, enclosed in saled envelope

RAPS



CYMATRAP[®] PRO

Pheromone trap for monitoring the stink bug (Halyomorpha halys for professional use



TARGET PESTS

Stink bug (Halyomorpha halys)

CULTIVATION

Herbaceous, industrial, ornamental. Fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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CYMATRAP® PRO is the recommended trap for professional use.

The unique pyramid shape is specially designed to effectively capture bug adults and nymphs. It measures 120 cm in height and 36 cm on the base sides.

TIPS FOR USE

CYMATRAP® PRO assists the farmer in monitoring the insect in three ways:

1. Intercepting of overwintering adults leaving their winter sites and monitoring their return to the field.

2. Through its particular pyramid shape, it favours the capture of the juvenile stages that climb up the vertical panels until they reach the inside of the container. Monitoring the presence of nymphs provides fundamental that makes prompt action possible to limit the spread of the species, as nymphs are more sensitive to insecticides than adults.

3. At the end of the season CYMATRAP[®] PRO intercepts and stops adults that tend to take refuge in winter diapause crevices. Place the trap outdoors, on the ground or on another surface, at least 6 metres away from gardens, fruit trees and building entrances. For proper monitoring, install three traps per hectare from March until September/October.

Check insect catches on a weekly basis. In the case of merged plots of several hectares, install three traps for the first hectare and one for each additional hectare. Maintain a minimum distance of 20 metres between traps.

Over-wintering insects initially respond little to pheromones, as they are more interested in finding food. After this initial phase, lasting a few weeks, their physiology changes and the pheromones begin to exert greater influence on the behavior, reaching a maximum on juveniles (nymphs). The number of catches can vary depending on many factors; the best results are usually seen from mid-July onwards.

The nymphs do not fly but only crawl so it is important to place the base of the trap on the ground, using the pegs and securing at the holes at the bottom of the pyramid.

It is best to place CYMATRAP® PRO in the areas of the farm most favourable to the development of Halyomorpha halys, especially in the crop perimeter areas located near hedges and buildings.

Provide additional traps on any sides or points that present a risk.

Pheromones are not included in the package and can be purchased separately as 'cymatrap dispensers'.

Warning: Only use the traps outdoors.

The CYMATRAP® PRO kit has two packages

 PACKAGE
CYMATRAP [®] PRO LARGE BOX

CODE

	CONTEN
2 SMALL BOXES	2 black fu
	2 traspar
	2 elastic l
	8 ground



P-25013INFHALYHA

CONTENT

2 black polywave plastic triangular supports 120 cm high with groove from base to centre (female) 2 black polywave plastic triangular supports 120 cm high with groove from apex to centre (male) **2** square black polywave plastic bases 36 cm each side

NΤ

unnels

- ent collection jars
- bands to secure the jar
- l anchoring pegs

FRAPS LINE



MASS[®]

Pheromone trap for mass trapping of Meal moths and Lepidoptera Noctuidae.

TARGET PESTS

TRAPS LINE

Lepidoptera, Meal moths

CULTIVATION

Stored foodstuffs, Herbaceous, industrial, ornamental. Fruit growing and viticulture

MONITORIN PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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MASS[®] is a funnel trap with collection bag that is particularly suitable for mass trapping of meal moths in flour mills, warehouses and the food industry in general.

Also suitable for catching various species of Lepidoptera Nottuidae infesting horticultural crops.

TIPS FOR USE

Hang one trap per 200 m³ approximately, in a medium-high position and away from walls. In greenhouses, use one trap per 1000 m².

PAKAGE	CODE	CONTENT
MASS [®] WITH PHEROMONES	P-25003INFX	1 trap 3 pheromone dispensers 3 bags
PAKAGE	CODE	CONTENT
MASS [®] WITHOUT FEROMONES	P-25003INF	1 trap 3 bags without dispensers





MASS[®] LARGE

Pheromone trap for mass trapping Wood leopard moths and processionary moths.

RAPS

TARGET PESTS Lepidoptera CULTIVATION

Herbaceous, industrial, ornamental, fruit and wine growing

MONITORING PERIOD

MONTHS J	Jan. f	Feb. M	lar. A	pr. May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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MASS[®] LARGE is a trap for the mass trapping of the goat moth, and pine processionary moths. The trap is available in two versions: with closed flaps, recommended for the mass capture of the goat moth (Cossus cossus) and the Pine processionary moth (Traumatocampa pityocampa); with open flaps for the capture of the Wood leopard moth (Zeuzera pyrina).

MASS® LARGE, in the version with vertical fins, is also suitable for capturing different species of Lepidoptera Nottuidae infesting horticultural crops.

TIPS FOR USE

Install traps by the 1st half of May for Zeuzera pyrina or Cossus cossus, 8 to10 per hectare. For the pine processionary moth (Traumatocampa pityocampa) install MASS® LARGE traps in the first half of June and hang them from a medium-high position on the south-west side of the plants.

In parks and gardens, 6 to 8 MASS[®] LARGE traps per hectare, 40-50 metres apart, are recommended.

In large-area forests, place MASS® LARGE traps one every 100 metres along the perimeter and access roads, placing them especially in the sunniest areas and where infestation is usually greatest.

• DISPENSERS



Vial dispenser (e.g. Zeuzera)



	PACKAGE	CODE	CONTENT
	MASS [®] LARGE FOR GOAT MOTH AND NOCTUIDS - CLOSED FINS	P-25004INFACX	2 traps 6 pheromones
	MASS [®] LARGE WOOD LEOPARD MOTH OPEN FINS	P-25004INFAAZEUZPY	2 traps 6 pheromones
H	MASS [®] LARGE FOR PINE PROCESSIONARY MOTH	P-25004INFACTHAUPI	2 traps 4 pheromones
	MASS [®] LARGE WITHOUT PHEROMONES CLOSED FINS MASS [®] LARGE WITHOUT PHEROMONES OPEN FINS	P-25004INF P-25004INFA	2 traps WITHOUT pheromones
	MASS [®] LARGE COLLECTOR TUBES	P-25004INFREF	10 tubes



MASS[®] LARGE for Popillia japonica

Pheromone trap for the mass trapping of Popillia japonica – Japanese beetle

Popillia japonica – Japanese beetle

CULTIVATION

TARGET PESTS

Herbaceous, industrial, ornamental. Fruit growing and viticulture.

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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MASS® LARGE is a trap specifically modified for mass trapping of the Japanese beetle (Popillia japonica). The combination of pheromone-based sexual attractant and floral odour attractant enables capture of male and female specimens. The trap is designed to be selective and prevent the capture of beneficial insects. The large collection bag permits the capture of numerous individuals.

TIPS FOR USE

The recommendation is to place the trap at least 1 metre high, at a distance of at least 10 m from the crops. For mass trapping, place 15 to 20 traps per hectare.

For monitoring purposes, 1 to 3 traps per hectare are recommended.

Empty or replace the bag when it is two-thirds full, cleaning the funnel to stop the trap from clogging up. Replace dispensers every 8-10 weeks.

CONFEZIONE	CODICE	CONTENUTO
MASS [®] LARGE for Popillia japonica	P-25023INFPOPIJA	2 traps4 blisters with separate pheromone + attractant6 bags



RAPS



OLIVE

Specially designed pheromone traps for monitoring the olive fruit fly

Olive fruit fly (Bactrocera oleae)

Fruit growing and viticulture

TARGET PESTS

MONITORING PERIOD

MONTHS Jan	. Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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OLIVE is an extremely effective trap for monitoring the olive fruit fly (Bactrocera oleae), consisting of a specially designed double-pitch glued canopy, with the composite pheromone dispenser positioned at a distance from the canopy to maximise its attractive quality and ability to capture the flies.

nFarm

The combination of OLIVE and the specific pheromone makes for a highly selective and effective system.

TIPS FOR USE

The recommendation is to install the OLIVE traps at the end of June, with two to three traps per hectare of olive grove. In the case of plots larger than one hectare, calculate 3 traps for the first hectare and one trap for each additional hectare. Replace the dispenser every 4 to 5 weeks.

Insert the composite lure into the support (see figure).



~	PACKAGE	CODE	CONTENT
	OLIVE	P-25007INFDACUOL	9 traps
~			9 pheromone dispensers







ROOF

Specially designed pheromone trap for monitoring scale insects.



Scale insects

• TARGET PESTS

Fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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The **ROOF** model is designed for monitoring scale insects. **ROOF** is a trap consisting of a glued canopy where the lure is positioned at a distance from the glued canopy to maximise its ability to attract and capture.

hFarm

TIPS FOR USE

The recommendation is to install **ROOF** traps in spring with two to three traps per hectare in open field, or one to two traps per plot in greenhouses.

Insert the rubber capsule into the holder (see figure).

0.2	PACKAGE	CODE	CONTENT
9X	ROOF	P-25008INFX	3 traps
~			9 glued roofs



TRAPTEST®

Pheromone trap for monitoring Lepidoptera

TARGET PESTS

Lepidoptera

Stored foodstuffs, herbaceous, industrial, ornamental. Fruit growing and viticulture, Poplar growing and forestry

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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TRAPTEST® is an adhesive trap, recommended for monitoring small and medium-sized Lepidoptera.

TRAPTEST® is the most widely used and effective device for monitoring Lepidoptera flights in orchards and vineyards, an essential tool for guided pest control, allowing the farmer to know when the actual level of infestation exceeds certain thresholds.

TRAPTEST® consists of a non-glued canopy and a glued bottom, joined together at cross-axes; the pheromone dispenser is placed in the centre of the glued bottom where male individuals of the species in question, attracted by the sex pheromone, are captured.

TIPS FOR USE

Calculation of trap requirements

The recommendation is to install 3 TRAPTEST® traps per hectare.

In the case of plots larger than one hectare, calculate three traps for the first hectare and one trap for each additional hectare.

In the case of simultaneous monitoring of several species, place the **TRAPTEST®** for each species at a distance of no less than 30 metres.

Never insert more than one dispenser into the same **TRAPTEST**[®]. Insert the dispensers as described in the figure. Check traps weekly or more frequently if necessary.

The use of **TRAPTEST®** poses no risk of toxicity to humans, pets or the environment. No special precautions are required.







GLUED BOTTOM

PACKAGE CODE TRAPTEST[®] WITH PHEROMONES P-25001 \leftarrow TRAPTEST[®] WITHOUT PHEROMONES P-25001 TRAPTEST[®] ONE WITH PHEROMONES P-25001 \checkmark TRAPTEST[®] ONE WITHOUT PHEROMONES P-25001 **TRAPTEST**® P-25001 GLUED BOTTOMS



	CONTENT
INFX	3 traps 9 glued bottoms 9 pheromone dispensers
INF	3 traps 9 Glued bottoms without pheromone dispenser
INFONEX	1 traps 3 glue bottoms 3 pheromone dispensers
INFONE	1 trap 3 glue bottoms
INFRE	9 glued bottoms



WING

Chromotropic trap for monitoring and mass trapping of Diptera Tripetidae

TARGET PESTS

Diptera Tripetidae

CULTIVATION

Fruit growing and viticulture

MONITORING PERIOD

MONITUR											_	
MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.

WING is an adhesive chromotropic trap, its yellow colour attracts the target insect and is particularly active against Diptera tripetidae. It is suitable both for monitoring and mass trapping.

It has a star-shaped cross-section that gives maximum exposure to light and facilitates handling to avoid dirtying the alue.

It is used on different insect species depending on the system of attraction with which it is triggered:

- activation with parapheromone (trimedlure): Mediterranean fruit fly;
- activation with pheromone and food (or ammonia) attractant: olive fruit fly;
- activation with food (or ammonia) attractant: Cherry fruit fly, walnut husk fly, caper fruit fly.

TIPS FOR USE

Traps must be installed in June, within the hatching period of the individual species, using two to three per hectare. Calculation of trap requirements

In the case of plots larger than one hectare, calculate 3 traps for the first hectare and one trap for each additional hectare. Check traps weekly or more frequently if necessary.

Recommendations for use for mass trapping

WING for catching Bactrocera oleae should be activated with pheromone for the male and ammonia attractant for the female. The plugs at the end of the pheromone dispenser should not be opened and should be inserted into one of the two openings provided on the triangular roof of the trap. Vials of ammonia attractant should be opened and the hung cap inserted into one of the two openings provided on the canopy. Do not remove the discs in the vial. The vial will remain hanging under the trap canopy. Pheromone dispenser: duration 4 weeks.

Ammonia attractant: duration 4 weeks but this may decrease if there is rain or high humidity (it can be seen when the product is running out).

For mass trapping, install no less than 15 to 20 traps per hectare.



The package contains: 3 yellow chromotropic traps with pheromone and/or attractant dispensers depending on the target insect.

PACKAGE	CODE	CONTENT
WING WITHOUT PHEROMONES	P-25009INF	3 traps without dispenser
WING for Olive fruit fly (Bactrocera oleae)	P-25009INFDACUOL	3 traps 9 pheromone dispensers 9 vials of ammonia attractant
WING for Mediterranean fruit fly (Ceratitis capitata)	P-25009INFCERTCA	3 traps 9 plates of 'trimedlure' attractant
WING for Cherry Fruit Fly (Rhagoletis cerasi)	P-25009INFRHAGCE	3 traps 9 vials of ammonia attractant
WING for Walnut Husk Fly	P-25009INFRHAGCO	3 traps 9 vials of ammonia attractant





RAPS LIN



WING EVO

Chromotropic trap for monitoring and mass trapping of Diptera Tripedae



CULTIVATION

TARGET PESTS

Diptera Tripetidae

Fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan. F	Feb. Ma	. Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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WING EVO is an adhesive chromotropic trap, its yellow colour attracts the target insect and is particularly effective against Diptera tripetidae. It is suitable both for monitoring and for mass trapping.

It has a crossed cross-section, a large glued area with a large amount of glue per panel, and a specially designed shape to ensure optimal exposure to light, avoiding the dirtying of the glue and facilitating its use in the field. The trap is extremely stable and resistant to all kinds of weather.

It is used on diverse insect species, depending on the attraction system (to be purchased separately) with which it is triggered:

- activation with parapheromone (trimedlure): Mediterranean fruit fly;
- activation with pheromone and food (or ammonia) attractant: olive fruit fly;
- activation with food (or ammonia) attractant: cherry fly, walnut husk fly, caper fruit fly.
- activation with attractant (methyleugenol): Oriental fruit fly

TIPS FOR USE

Traps must be installed in June, within the hatching period of the individual species, using two to three traps per hectare. Calculation of trap requirements

In the case of plots larger than one hectare, calculate 3 traps for the first hectare and one trap for each additional hectare. Check traps weekly or more frequently if necessary

Recommendations for use in mass trapping

WING EVO for trapping Bactrocera oleae should be activated with pheromone for the male and ammonia attractant for the female.

The plugs at the end of the pheromone dispenser should not be opened and should be inserted into one of the two openings on the triangular roof of the trap. Vials of ammonia attractant should be opened and the cap inserted into one of the two openings in the canopy. Do not remove the discs from the vial. The vial remains hanging under the trap canopy.

Pheromone dispenser: lasts 4 weeks.

Ammonia attractant: lasts 4 weeks but may be less if there is rain or high humidity (it can be seen when the product is running out). For mass trapping, install no less than 15 to 20 traps per hectare.

Methyleugenol attractant: lasts 6 weeks





CONTENT

9 complete traps (18 glued folded panels) TRAPS LIN

1 CARTON CONTAINS 1 PACK OF 9 TRAPS

CROMO SQUARE

Chromotropic YELLOW trap for the monitoring and mass trapping of Dipterae

TARGET PESTS

Diptera Tephritidae

Herbaceous, industrial, ornamental. Furit growing and viticulture

MONITORING PERIOD

MONTHS		F 1		•				•	6	<u> </u>		D
MONTIO	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Uct.	Nov.	Dec.

CROMO SQUARE is a yellow chromotropic trap for monitoring and mass trapping of insects, particularly recommended for dipterans.

It is to be used in conjunction with the specific pheromone dispensers (purchased separately); its yellow colour is also attractive to numerous other insects such as rhynchotae (such as whiteflies and leafhoppers).

A **CROMO SQUARE** pack contains 10 polypropylene chromotropic panels with entomological adhesive on both sides of the floor; the first and last traps in the pack have adhesive on one side only.

Each panel is 25 cm high and 25 cm wide, with a total glued area of 441 $\mbox{cm}^2.$

Each panel has two specific openings to fit the lure and a hole for hanging the trap by means of a wire. The high-quality entomological glue is non-toxic and is applied on both sides. It is UV-resistant, does not dry out and remains active for at least 4 to 5 weeks in open field conditions.

The strength of the material used allows the trap to be used in open field conditions, in any type of greenhouse and also in indoor environments such as where there is food storage as well as in livestock farms.

CROMO SQUARE is harmless to beneficial insects such as bees, as its yellow colour is not sufficient to attract them, as the presence of pollen or nectar is necessary.

It is used on various insect species depending on the system of attraction with which it is triggered:

• activation with parapheromone (trimedlure):

Mediterranean fruit fly;

- activation with pheromone and food (or ammonia) attractant: olive fruit fly;
- activation with food (or ammonia) attractant: cherry fly, walnut husk fly and caper fruit fly.

TIPS FOR USE

Install **CROMO SQUARE** panels for the monitoring or mass trapping of the target insect pest. Vary the quantity of panels used according to the pressure and quantities of the insect and the crop to be protected. Replace panels when about 70 per cent of the surface area is covered with insects or when the glue loses its adhesive quality.

By increasing the number of traps around the perimeter of the plot, a barrier can be achieved to limit the entry of new phytophages into the field.

Use the wire provided to attach the panels to the support structures. Secure the **CROMO SQUARE** panels so that they do not oscillate and so are more effective in catching insects. For a more selective capture of dipterans, the **CROMO SQUARE** panels can be combined with the specific pheromone dispensers for those types of insects for which the attractiveness of the chromotropic trap can be applied simultaneously with that of the sex or aggregation pheromones. In this case, the number of panels installed can be considerably reduced according to requirements. Place the lures in the openings.

PACKAGE	CODE
CROMO SQUARE	P-0406





CONTENT

2

10 glued panels (including 2 external protective panels) 10 wires)

1 CARTON CONTAINS 10 PACKS OF 10 PANELS

BLUTRAP®

BLUE Chromotropic trap for monitoring and mass trapping of thrips.

TARGET PESTS

Thrips

CULTIVATION

Herbaceous, industrial, ornamental. Fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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BLUTRAP® is the blue chromotropic trap for monitoring and mass trapping of thrips.

One pack of **BLUTRAP®** contains 10 double-sided adhesive chromotropic panels made of high-guality biodegradable paper and 20 ties for guick installation.

nFarm

Each panel is 25.5 cm high and 16 cm wide, giving a total surface of 408 cm² per side and is enclosed in 2 protective release papers.

The highly saturated blue is particularly suitable to enhance its attractiveness to thrips. In particular, it attracts Frankliniella occidentalis (alfalfa thrips), vector of the tomato virus that causes TSWV wilt (Tomato Spotted Wilt Virus). Water-repellent, resistant to rain and foliar application of the most common pesticides.

The high-quality entomological glue is non-toxic and has glue on both sides. It is UV-resistant, does not dry out and remains active for at least 4-5 weeks.

Once applied, the panel remains well stretched, does not roll up and does not curl. It can be used in any type of greenhouse as well as in open field conditions. Safe and non-toxic

TIPS FOR USE

Use **BLUTRAP®** panels for monitoring or mass trapping of thrips. Install approximately

10 **BLUTRAP®** panels per 100 m² from pre-flowering onwards.

Put the traps in position at the height of the flowering or on the upper part of the foliage. Vary the quantity of panels used according to the pressure and quantities of the insect and the crop to be protected.

Replace panels when about 70 per cent of the surface is covered with insects or when the glue loses its adhesive quality.

By increasing the number of traps around the perimeter of the plot, a barrier can be achieved to limit the entry of new phytophages into the field.

Use the ties available to attach the panels to support structures.

There is a hole in each of the four corners of the panel for ease of operation. Fasten **BLUTRAP®** panels correctly so that they do not oscillate to be more effective in catching insects.









CONTENT

10 glued panels 20 installation ties

1 CARTON CONTAINS 50 PACKS OF 10 PANELS

RAPS LIN



GOLDENTRAP®

YELLOW chromotropic trap for monitoring and mass trapping of dipterans, leafhoppers and whiteflies.

TARGET PESTS

Aaleurodidae, Diptera, leafhoppers

CULTIVATION

Herbaceous, industrial, ornamental, fruit and wine growing

MONITORING PERIOD

MONTHS Ja	an.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	
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GOLDENTRAP® is a yellow chromotropic trap for monitoring and mass trapping of insects.

A pack of GoldenTrap® contains 10 double-sided, glued chromotropic panels made of high quality paper and 20 ties for guick installation. Each panel is 25 cm high and 16 cm wide, with a total surface area of 408 cm² per side and is enclosed in 2 protective release papers.

The fluorescent yellow is particularly suitable for attracting dipterans (e.g. flies) and rhynchotae, such as leafhoppers and whiteflies or other insects attracted by the colour.

The trap is suitable for monitoring Scaphoideus titanus, the vector insect for Grapevine flavescence dorée. Water-repellent, resistant to rain and foliar application of the most common pesticides.

The high-quality entomological glue is non-toxic and covers both sides. It is UV-resistant, does not dry out and remains effective for at least 4-5 weeks in open field conditions.

Once applied, the panel remains rigid, without curling or bending and can be used in any type of greenhouse, in open field conditions as well also in indoor environments where there is food storage or animal husbandry.

GoldenTrap® is harmless to beneficial insects such as bees, as its yellow colour is not sufficient to attract them, as the presence of pollen or nectar is necessary. Safe and non-toxic.

TIPS FOR USE

Install GoldenTrap® panels for monitoring or mass capture of the target insect pest.

Vary the amount of panels to be used according to the pressure and quantities of the insect and the crop to be protected.

Replace panels when about 70 per cent of the surface is covered with insects or when the glue loses its adhesive quality.

By increasing the number of traps around the perimeter of the plot a barrier can be achieved, limiting the ingress of new phytophages into the field.

Use the ties available to tie the panels to the support structures.

There is a hole in each of the four corners of the panel to help with this. Fasten the **GoldenTrap®** panels securely so that they do not oscillate and are more effective in catching insects.

For more selective trapping, GoldenTrap® panels can be combined with pheromone dispensers Dispenser specific for

those types of insects for which the attractiveness of the chromotropic trap can be usefully used at the same time as sex pheromones or aggregation. In this case, the number of panels installed can be significantly reduced according to requirements.

Set the dispensers directly onto the entomological glue. There are holes in the four corners of the panel to help fasten GoldenTrap® so it does not oscillate and so is more effective in catching insects.









CONTENT

10 glued panels 20 installation ties

1 CARTON CONTAINS 10 PACKS OF 10 PANELS

RAPS LINE



BLUTRAP® ROLL

BLUE chromotropic roll for the mass trapping of thrips.

TARGET PESTS

Thrips

Herbaceous, industrial, ornamental, fruit growing and viticulture

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	Mav	June	Lua.	Aua	Sep.	Oct.	Nov.	Dec.
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BLUTRAP® ROLL is a blue chromotropic roll for mass thrip trapping.

The roll is 15 cm wide and 100 metres long. It is made entirely of biodegradable, tensile-resistant paper, but can be easily be torn crosswise for quick and easy use.

There is high-quality entomological glue on both sides of the roll. It is UV-resistant, does not dry out and remains effective for at least 4 to 5 weeks. The edge of the roll is not glued, to assist in its handling. The highly saturated blue is particularly attractive to thrips and In particular attracts *Frankliniella occidentalis* (Western greenhouse thrips), vector of the tomato virus that causes spotted wilt (TSWV) (Tomato Spotted Wilt Virus).

It is water-repellent, resistant to rain and foliar application of the most common pesticides and can be used in any type of greenhouse.

Due to the large adhesive surface area, its use in open fields is not recommended because of the risk of catching other non-target animals such as birds or small mammals. Safe and non-toxic.

TIPS FOR USE

Roll out **BluTrap®** Roll in the pre-flowering stage of the crop for mass thrip capture. Vary the quantity to be used according to the pressure and quantities of the insect and the crop to be protected. For example, the roll can be spread along the row of the crop, affecting all the inter-row rows, or it can be applied alternately. The installation height must correspond with that of the flowering stage and vegetative apex of the crop or where the leaf apparatus is well developed.

Replace the product when about 70 per cent of the surface is covered with insects or when the glue loses its adhesive quality.

It is advisable, where possible, to use the poles in the greenhouses as support for the roll and to increase installation near the greenhouse's entrances to better intercept incoming thrips.

There is a hole in each corner of the panel for ease of operation. Fasten **BluTrap®** panels correctly so that they do not oscillate and so are more effective in catching insects.

~	PACKAGE	CODE
	BLUTRAP [®] ROLL	P-25017IN



NFBR

CONTENT

100 metres

1 CARTON CONTAINS 12 ROLLS

GOLDENTRAP® ROLL

YELLOW chromotropic roll for the Trapping of dipterans and aleurodidae.

TARGET PESTS

Aaleurodidae, Dipterans

CULTIVATION

Herbaceous, industrial, ornamental. Fruit growing and viticulture

MONITORING PERIOD

MONTHS Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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GOLDENTRAP® ROLL is a two-sided yellow adhesive chromotropic roll for mass insect trapping.

It is particularly suitable for catching flies, e.g. olive fruit fly (D. oleae), cherry fly (R. cerasi), white fly (aleurodidae) and common fly. It can also be used for cicada trapping and monitoring.

The roll is 15 cm wide and 100 metres long. It is made entirely of biodegradable, tensile-resistant paper, but can be easily torn crosswise for quick and easy use. The high-quality entomological glue is non-toxic and covers both sides of the roll.

The roll is UV-resistant, does not dry out and remains effective for at least 4 to 5 weeks. The edge of the roll is not glued for easier handling.

The yellow colour is particularly good at attracting dipterans (e.g. flies) and rhynchotae such as leafhoppers and whitefly, or other insects attracted by yellow (e.g. corn rootworm, some aphids).

It is water-repellent, resistant to rain and foliar application of the most common pesticides.

It can be used in any type of greenhouse and in indoor environments such as for food storage or animal husbandry.

GoldenTrap® Roll is harmless to beneficial insects such as bees, as the vellow colour is not sufficient to attract them. as the presence of pollen or nectar is necessary. Due to the large adhesive surface area, use in open fields is not recommended because of the risk of catching other non-target animals such as birds or small mammals. Safe and non-toxic.

TIPS FOR USE

Roll out the GoldenTrap® Roll for massive capture of the target insect pest. Vary the quantity to be used according to the pressure and quantity of the insect and the crop to be protected. For example, the roll can be spread along the row of the crop, covering all the inter-rows, or it can be applied alternately. The installation height must correspond with the vegetative apexes of the crop or slightly below where the leaf apparatus is well developed.

Replace the product when about 70 per cent of the surface is covered with insects or when the glue loses its adhesive quality.

It is advisable, where possible, to use the poles in the greenhouses as support for the roll and to increase the installation near the greenhouse entrances to better intercept incoming phytophages.

In stables, GoldenTrap® Roll can be applied on vaults, between beams or on supporting posts to intercept insects that proliferate in livestock environments.

For more selective trapping, **GoldenTrap® Roll** can be combined with specific pheromone dispensers for those types of insects for which the attractiveness of the chromotropic trap can be used at the same time as that of the sex or aggregation pheromones. In this case, put one dispenser about every 50 metres on the entomological glue itself. If a clear gradient of increased catches forms in the vicinity of the pheromone, shorten the distance between dispensers.

PACKAGE	CODE
GOLDENTRAP [®] ROLL	P-250171



NFGR

CONTENT 100 metres

1 CARTON CONTAINS 12 ROLLS

RAPS LINE

YATLORF

Pheromone trap for the monitoring of Coleoptera Elateridae - Click beetles

TARGET PESTS

Coleoptera elateridae .click beetles

CULTIVATION

Herbaceous, industrial, ornamental

MONITORING PERIOD

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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YATLORF is a trap designed to monitor Elateridae – click beetles, Coleoptera with a multi-annual cycle whose larvae, known regionally as wireworms, feed on roots and underground organs causing seedling failures and wilting of adult plants. In our environments the most common species belong to the genus Agriotes and among them A. litigiosus, A. brevis e A. sordidus.

TIPS FOR USE

YATLORF traps, depending on the season and the insect to be monitored, should be activated with one or more specific pheromones;

in early spring (late March), the trap activated with A. brevis pheromone should be set, placing the lure below the flaps of the trap body.

At the beginning of April, the trap for A. sordidus should be installed; this trap should be renewed after one month.

In mid-June, the pheromone for A. litigiosus is replaced, to be renewed after approximately one month.

PERIOD

The traps should be placed 3 per 10 hectares of land, placing them in a stable position on the ground, burying the lower edge with 1-2 centimetres of soil. The dispensers last for 4-5 weeks.

RECOMMENDED CALENDAR FOR THE INSTALLATION OF PHEROMONES

End of March/ beginning of April	Insert Brevis				
beginning Aprile Add Sordidus					
beginninf of May	Renew Sordidus				
End of May	Replace Brevis con Litigiosus				
Mid-June	Renew Litigiosus				
Early August	End Monitoring				

FEROMON

To cover the whole season. a package consisting of one trap and 5 dispensers (1 Brevis, 2 Sordidus, 2 Litigiosus).

	PACKAGE	CODE	CONTENT
	YATLORF TIPO A	P-25011INF	1 trap with components to assemble Pheromones are not included in package
\$ Z	DISPENSER AGRIOTES BREVIS	P-25011INFEAGRBRE	
	DISPENSER AGRIOTES LITIGIOSUS	P-25011INFEAGRLIT	

DISPENSER AGRIOTES SORDIDUS



P-25011INFEAGRSOR

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LYGUSTRAP

Pheromone trap for the monitoring of Lygus rugulipennis.



CULTIVATION

TARGET PESTS Lygus rugulipennis

Herbaceous, industrial, ornamental

MONITORING PERIOD

MONTHS Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.	Ľ
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LYGUSTRAP is the pheromone trap for the monitoring of Lygus rugulipennis, recommended for horticultural crops.

The trap can be used both for monitoring and for mass trapping on a wide variety of horticultural crops.

TIPS FOR USE

The period for monitoring is between April and October. Place 2-5 traps per hectare for field crops. For protected crops, place the traps outside the greenhouse.

The traps should be placed between the crop rows at a height of 20-50 cm or buried up to the collecting jar. In the presence of high densities of the pest, provide additional traps on any sides or points of high risk.

To facilitate the capture of the insect, add a liquid (such as. soap and water). The green increases the attractiveness of the trap to the insect. The dispensers last for 4-5 weeks.

\sim	PACKAGE	CODE	CONTENT
	LYGUSTRAP	P-25019INF	2 traps
			4 pheromone dispensers



DROSATRAP

Trap for monitoring and the mass trapping of Drosophila suzukii.



Herbaceous, industrial, ornamental

MONITORING PERIOD

TARGET PESTS Drosophila suzukii

CULTIVATION

DROSATRAP is a trap used to monitor the Spotted wing Drosophila (Drosophila suzukii), a key pest in strawberry, raspberry, grape, cherry, plum, peach, fig, blackberry, blueberry, persimmon and kiwi.

DROSATRAP is a selective trap the design of which prevents the capture of other insects, including beneficial insects such as bees.

TIPS FOR USE

DROSATRAP is a trap to be used in combination with **Drosaliquid**.

We recommend placing 10 to 20 traps per hectare, each filled with 200 ml of attractant liquid, positioning them at a height of 1 to 1.5 m.

> IDEAL WITH DROSALIQUID



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PACKAGE	CODE	CONTENT
DROSATRAP	P-25020INFKIT	2 traps 1 can of Drosaliquid



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IDROTRAP

Pheromone trap for the monitoring and the mass capture of Tuta absoluta.



RAPS LINE

CULTIVATION Herbaceous, industrial, ornamental

MONITORING PERIOD

TARGET PESTS Tuta absoluta

MONTHS		E 1		•					C C	<u> </u>		D
Monthio	Jan.	Feb.	Mar.	Apr.	мау	June	Lug.	Aug	Sep.	Uct.	INOV.	Dec.

IDROTRAP is a water trap for monitoring and mass trapping of Tuta absoluta, one of the main pests for the tomato plant.

IDROTRAP consists of a red tray with an overflow system that controls the water level. Male insects are attracted by the sex pheromone released from the top of the trap and fall into the water.

TIPS FOR USE

Place the traps at ground level, with a distance between traps of 15 to 20 metres. Fill the trap with water to the level indicated, adding a small amount of liquid soap or vegetable oil.

IDROTRAP can be connected to a dripper for automatic filling or, alternatively, refilling can be carried out manually. It is advisable to check the traps regularly to remove the insects present. Replace the dispenser every 4 to 6 weeks.

PACKAGE	CODE	CONTENT
IDROTRAP	P-25022INFTUTAB	3 traps
		3 pheromone dispensers







DISPENSER CYMATRAP® DISPENSER DROSALIQUID PHEROMONE DISPENSER AVAILABLE

LINEA FEROMONI & DISPENSER

DISPENSER

Insect-specific pheromone dispensers

DISPENSER with additional pheromone releasers for all types of traps.

TIPS FOR USE

Place the dispenser in the centre of the traps according to directions. Vial dispensers, with the exception of the ammonia attractant, must be kept closed.



or **9** vials of ammonia attractant or **9** pairs of dispensers for *Popillia japonica*

NnFarm

CYMATRAP[®] DISPENSER

Pheromone dispensers specifically for Brown marmorated stink bugs (Halyomorpha halys)

CYMATRAP® dispenser contains pairs of additional dispensers, to be combined with the traps CYMATRAP[®] GARDEN and CYMATRAP[®] PRO.

TIPS FOR USE

Place one silicone dispenser and one vial-shaped dispenser inside the jar and at the base of the cone. Keep the vial closed. Replace after 8 to 9 weeks.

Place the aggregate dispenser (vial) and the attractant dispenser (silicone dispenser) inside the CYMATRAP® GARDEN o CYMATRAP® PRO trap jar.

The vial-shaped diffuser must be kept closed.

The product presents no risk of toxicity to humans or pets and its use does not require any special precautions. To ensure greater effectiveness, we recommend handling them with gloves. Store in a cool place. The activity of the dispensers lasts for 8 to 9 weeks from the day of exposure in the field, depending on the environmental conditions.



PACKAGE	CODE
DISPENSER 3+3	P-250141







CONTENT

INFHALYHA

3 aggregation pheromone dispensers (vials)

3 attractant dispensers (silicone dispenser) specifically for Halyomorpha halys





DROSALIQUID

Liquid attractant for mass dipteran capture.

TARGET PESTS

Batrocera dorsalis, Ceratitis capitata, Drosophila suzukii

CULTIVATION

Fruit growing and viticulture

DROSALIQUID is a mixture of natural food substances recommended for Drosophila suzukii, Ceratitis capitata and Bactrocera dorsalis.

TIPS FOR USE

Liquid food attractant for use inside the Drosatrap. Lasts from 3 to 6 weeks, depending on environmental conditions.

We recommend topping up the liquid every 14 days or when necessary.

To prolong the life of the liquid in the field, it is advisable to check the traps regularly and remove any insects that are in the liquid.

For greater attracting power, the product can be used in combination with specific pheromones.

IDEAL WITH DROSATRAP



PACKAGE	CODE	CONTENT
DROSALIQUID	P-25020INF	CAN of 1 litre



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STORED FOODSTUFFS					
SCIENTIFIC NAME	COMMON NAME	TRAP			
Cadra cautella	Almond and Fig Moth	Traptest [®] , Mass [®]			
Cadra figulilella	Raisin moth	Traptest [®] , Mass [®]			
Ephestia elutella	Cocoa and Tobacco Moth	Traptest [®] , Mass [®]			
Ephestia kuehniella	Mediterranean flour moth	Traptest [®] , Mass [®]			
Plodia interpunctella	Indian meal moth	Traptest [®] , Mass [®]			
Sitotroga cerealella	Rice grain moth	Traptest [®] , Mass [®] , Mass [®] Large with fins			

HERBACEOUS, INDUSTRIAL, ORNAMENTAL

	SCIENTIFIC NAME	COMMON NAME	TRAP
	Acrolepiopsis assectella	Leek Moth	Traptest®
	Agriotes brevis	Click beetle	Yatlorf
	Agriotes litigiosus	Click beetle	Yatlorf
	Agriotes sordidus	Click beetle	Yatlorf
	Agrotis exclamationis	heart-and-dart moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Agrotis ipsilon	dark sword grass moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Agrotis segetum	turnip moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Autographa gamma	beet worm	Traptest®
	Cacoecimorpha pronubana	carnation tortrix	Traptest®
	Capparimya savastanoi	Caper fruit fly	Wing
	Choristoneura lafauryana	Strawberry and soybean tortrix	Traptest [®]
	Chrysodeixis chalcites	tomato looper	Traptest®
	Cydalima perspectalis	box tree moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Cydia nigricana	pea moth	Traptest®
-	Discestra trifolii	clover cutworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Duponchelia fovealis	Southern European marsh pyralid	Traptest®
-	Epichoristodes acerbella	South African carnation tortrix	Traptest®
	Gortyna xanthenes	Artichoke moth	Traptest®
	Halyomorpha halys	brown marmorated stink bug	Cymatrap®
-	Helicoverpa armigera	cotton bollworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
	Loxostege sticticalis	beet and meadow moth	Traptest®
-	Mamestra brassicae	Cabbage Moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
_	Mamestra oleracea	glasshouse tomato moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
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AVAILABLE PHEROMONES



SCIENTIFIC NAME	COMMON NAME	TRAP
Mythimna unipuncta	American armyworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
Ostrinia nubilalis (strains E, E/Z, Z)	Corn borer	Traptest®
Ostrinia nubilalis (Phenylacetaldehyde)	Corn borer	Traptest®
Pectinophora gossypiella	Pink bollworm	Traptest®
Peridroma saucia	variegated cutworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
Phthorimaea operculella	Potato moth	Traptest®
Plutella xylostella	cabbage moth	Traptest®
Popillia japonica	Japanese beetle	Mass [®] per Popilia
Sesamia cretica	Sorghum borer	Traptest®
Sesamia nonagrioides	Mediterranean corn borer	Traptest [®] , Mass [®] Large with fins
Spodoptera exigua	beet armyworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
Spodoptera frugiperda	grass worm	Traptest®
Spodoptera littoralis	cotton leafworm	Traptest [®] , Mass [®] , Mass [®] Large with fins
Tecia solanivora	Central American Potato Tuber Moth	Traptest®
Trichoplusia ni	cabbage looper	Traptest®
Tuta absoluta	Tomato leaf miner	Traptest®
Xestia c-nigrum	spotted cutworm	Traptest [®] , Mass [®] , Mass [®] Large with fins

FRUIT AND WINE GROWING

SCIENTIFIC NAME	COMMON NAME	TRAP
Adoxophyes orana	summer fruit tortrix	Traptest®
Anarsia lineatella	peach twig borer	Traptest®
Antispila oinophilla	grapevine leaf miners	Traptest®
Aonidiella aurantii	California red scale	Roof
Archips podanus	fruit tree tortrix	Traptest®
Archips rosanus	European leaf roller	Traptest®
Argyrotaenia pulchellana	grape tortrix moth	Traptest®
Bactrocera dorsalis	Oriental fruit fly	Traptest®
Bactrocera (Dacus) oleae	olive fruit fly	Bactrocera dorsalis
Bactrocera zonata	peach fruit fly	Traptest [®] , Wing, Olive
Ceratitis capitata	Mediterranean fruit fly (Medfly)	Bactrocera dorsalis
Clepsis spectrana	cyclamen tortrix	Traptest [®] , Wing
Comstockaspis perniciiosa	San José scale	Traptest®
Cossus cossus	goat moth	Roof

SCIENTIFIC NAME	COMMON NAME	TRAP
Cryptoblabes gnidiella	honeydew moth	Mass [®] Large con alette
Cydia fagiglandana	beech moth	Traptest®
Cydia funebrana	plum fruit moth	Traptest®
Cydia lobarzewskii	Small fruit tortrix	Traptest®
Cydia molesta	oriental fruit moth	Traptest®
Cydia pomonella	codling moth	Traptest®
Cydia splendana	chestnut fruit moth	Traptest ^{®,} Carpo, Carpo+
Duponchelia fovealis	Southern European marshland pyralid	Traptest®
Enarmonia formosana	bark tortrix	Traptest®
Eupoecilia ambiguella	European grape berry moth	Traptest®
Ephestia spp.	Grapevine / food moths	Traptest®
Euzophera bigella	fruit pyralid	Traptest®
Euzophera pinguis	tabby knot-horn moth	Traptest®
Halyomorpha halys	brown marmorated stink bug	Traptest®
Hedya nubiferana	green budworm moth	Cymatrap®
Leucoptera malifoliella	pear leaf miner	Traptest®
Lobesia botrana	European grapevine moth	Traptest®
Orgyia antiqua	European tussock moth	Traptest®
Palpita unionalis	jasmine moth	Traptest [®] , Mass [®] , Mass [®] Large with fins
Pammene fasciana	chestnut leaf roller	Traptest®
Pandemis cerasana	common currant tortrix	Traptest®
Pandemis heparana	dark fruit-tree tortrix	Traptest®
Phyllocnistis citrella	citrus leaf miner	Traptest®
Phyllonorycter corylifoliella	apple leaf miner	Traptest®
Phyllonorycter spp.	spotted tentiform leafminer	Traptest [®]
Planococcus citri	citrus mealybug	Traptest®
Planococcus ficus	grape mealybug	Roof
Popillia japonica	Japanese beetle	Roof
Prays citri	citrus flower moth	Mass [®] per Popilia
Prays oleae	olive moth	Traptest®
Pseudaulacaspis pentagona	white peach scale	Traptest®
Pseudococcus comstocki	Comstock mealybug	Roof
Ptycholoma lecheana	Leche's twist moth	Roof
Rhagoletis cerasi	cherry fruit fly	Traptest®
Rhagoletis completa	walnut husk fly	Wing

PHEROMONES & DISPENSERS



SCIENTIFIC NAME	COMMON NAME	TRAP
Sparaganothis pilleriana	vine leafroller tortrix	Wing
Spilonota ocellana	eye-spotted bud moth	Traptest®
Synanthedon myopaeformis	red-belted clearwing	Traptest®
Synanthedon tipuliformis	currant clearwingborer	Traptest®
Synanthedon typhiaeformis	Apple tree clearwing	Traptest®
Thaumatotibia leucotreta	false codling moth	Traptest®
Zeuzera pyrina	wood leopard moth	Mass [®] Large without fins
Ectomyeloies (Apomyelois) ceratoniae	carob moth	Mass ^{® e} Mass [®] Large

POPLAR CULTIVATION AND FORESTRY

SCIENTIFIC NAME	COMMON NAME	TRAP
Gypsonoma aceriana	European poplar shoot borer	Traptest®
Lymantria dispar	gypsy moth	Traptest®
Lymantria monacha	black arches moth	Traptest®
Paranthrene tabaniformis	dusky clearwing	Traptest®
Rhyacionia buoliana	European pine shoot moth	Traptest®
Tortrix viridana	green oak tortrix moth	Traptest®
Traumatocampa pityocampa	Pine processionary moth	Mass [®] Large with fins
Zeiraphera diniana	European grey larch moth	Traptest®





SEE THE COMPLETE LIST ONLINE OF PHEROMONES





PHEROMONES & DISPENSERS







ECODIAN[®] CT ECODIAN[®] CARPOCAPSA ECODIAN[®] CIDIA ECODIAN[®] COMBI ECODIAN[®] STAR



LINEA ECODIAN®



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ECODIAN[®] CT



Pheromone wire diffuser for the mating disruption of Chestnut tortrix moths

TARGET PESTS

Cydia splendana, Cydia fagiglandana (Chestnut Cydia)

CULTIVATION

Fruit growing and viticulture

PERIOD OF APPLICATION

MONTHS	Jan.	Feb.	Mar.	Apr.	May	June	Lug.	Aug	Sep.	Oct.	Nov.	Dec.
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ECODIAN[®] CT consists of a pheromone dispenser thread made of biodegradable and compostable Mater- Bi plastic that does not release persistent microplastics into the environment. At the end of use, dispose of in accordance with current regulations.

ECODIAN[®] CT eliminates and/or minimises the mating of Cydia splendana and Cydia fagiglandana, chestnut tortrix moths, through the use of mating disruption.

TIPS FOR USE

ECODIAN[®] CT should be installed before the beginning of the flights of the two species, i.e. from mid-June to early July. It is advisable to install **TRAPTEST®** traps in the plot in which disruption is to be employed, in order to monitor the quantities of flights of the insects.

The device (thread), should be cut into segments of approximately 6 metres in length and hooked onto the branches as high as possible (we recommend the use of a telescopic pole). The segments should be installed as evenly as possible through the plot.

In the case of newly planted intensive chestnut groves with regular distancing, the thread can be placed horizontally along the rows at an indicative height of 3 to 3.5 metres (first branch), maintaining the indicated dosage of 900 m/ hectare.

It is also advisable to install pieces of thread along the outer perimeter of the chestnut grove. The amount of thread to be installed per hectare is approximately 900 metres, depending on the type of chestnut grove. The life of the diffuser is influenced by climatic conditions, in particular temperatures, wind levels and exposure to sunlight. Under normal climatic conditions it lasts 70 to 80 days.



PACKAGE ECODIAN[®] CT CODE P-25016INFCT CONTENT

1 reel with 100 m red thread in biodegradable material



pending registration



CODIAN®





ECODIAN[®] CARPOCAPSA consists of pheromone dispensers made of biodegradable and compostable MATER-BI plastic that does not release persistent microplastics into the environment. At the end of use, dispose in accordance with current regulations.

ECODIAN[®] CARPOCAPSA eliminates and/or minimises mating by Cydia pomonella, the codling moth, through the employment of mating interruption.

TIPS FOR USE

ECODIAN[®] CARPOCAPSA should be applied before the beginning of the flight of the first generation of Carpocapsa (overwintering generation), following the indications of the forecast models provided by the Phytosanitary Services and/ or coinciding with the very first insects captured in the Carpocapsa pheromone traps. The application of dispensers from the second generation of Carpocapsa (beginning of second flight) can only be carried out if no damage has been detected on the fruit (ovideposition and/or larval penetration) from the chemically controlled first generation.

Apply ECODIAN[®] CARPOCAPSA dispensers on the branches in the upper third, if possible in shaded areas, taking care that distribution is uniform, while also protecting uncovered areas such as missing plant areas, corridors and where plants are being trained.

To be effective, the diffusers must be placed in such numbers that they can compete with the females in the orchard and minimise the likelihood of males detecting their calls.

The minimum number of **ECODIAN® CARPOCAPSA** diffusers required per use is 2000 per hectare; this number should be increased to 2500 to 3000 per hectare with high populations, and tall and vigorous plants. In orchards with ECODIAN[®] CARPOCAPSA, monitoring with CARPO or CARPO+ for Cydia pomonella is required. This makes it possible to monitor the progress of the system by installing the traps for monitoring before the start of the flights of the overwintering generation. Trap monitoring is very important and must be thorough. The absence of insect capture indicates that mating disruption has occurred and continues.

The activity of ECODIAN[®] CARPOCAPSA diffusers is influenced by climatic conditions; under normal climatic conditions they last for about 60 to 75 days.

ECODIAN[®] CARPOCAPSA

PACKAGE



P-25016INFCP

CODE

CONTENT

1 BOX:

1000 light blue hook diffusers, in biodegradable material



ECODIAN[®] CIDIA consists of pheromone dispensers made of biodegradable and compostable MATER-BI plastic that does not release persistent microplastics into the environment. At the end of use, dispose of in accordance with current regulations.

ECODIAN[®] CIDIA eliminates and/or minimises mating of Cydia (Grapholita) molesta, the Oriental Fruit Moth, through mating disruption.

TIPS FOR USE

ECODIAN[®] CIDIA should always be applied before the beginning of the flights, following the indications of the forecast models provided by the Phytosanitary Services and/or coinciding with the very first catches in the pheromone traps. Apply the **ECODIAN® CIDIA** diffusers on the branches in the upper third, if possible in shaded areas, taking care that they are uniformly distributed and protecting uncovered areas such as missing plant areas, corridors and where plants are being trained.

For best effectiveness, the diffusers should be placed in such numbers that they can compete with the females in the orchard and minimise the likelihood of males detecting their calls.

The minimum number of ECODIAN® CIDIA diffusers required for each application is 2000 per hectare; this number to be increased to 2500 to 3000 per hectare with high populations, and tall and vigorous plants.

In orchards with ECODIAN[®] CIDIA, monitoring with TRAPTEST[®] for Cydia (Grapholita) molesta is required. This makes it possible to monitor the progress of the system by installing the monitoring traps before the start of the flights. Monitoring the traps is very important and must be thorough. The absence of catches indicates that mating interruption has occurred and continues.

The activity of ECODIAN® CIDIA diffusers is influenced by climatic conditions. Under normal climatic conditions they last for about 50 to 60 days.

PACKAGE

ECODIAN[®] CIDIA

CODE P-25016INFCM



CONTENT

1 BOX:

1000 hook diffusers in grey, in biodegradable material



ECODIAN[®] COMBI consists of pheromone dispensers made of biodegradable and compostable MATER-BI plastic that does not release persistent microplastics into the environment. At the end of use, dispose of in accordance with current regulations.

ECODIAN® COMBI eliminates and/or minimises the mating of Cydia (Grapholita) molesta, Oriental fruit moth, and Anarsia lineatella, Peach twif borer, through mating disruption.

TIPS FOR USE

ECODIAN[®] COMBI should always be applied before the beginning of the flights, following the indications of the forecast models provided by the Plant Protection Services and/or coinciding with the very first catches in the pheromone traps. Considering that the first flight of Cydia is earlier than that of Anarsia, application is recommended of **ECODIAN®** COMBI at the beginning of the flight of the first generation of Anarsia.

Apply ECODIAN® COMBI diffusers on the branches in the upper third, if possible in shaded areas, taking care to distribute them evenly, while protecting uncovered areas such as missing plant areas, any corridors and where plants are being trained. For best effectiveness, the diffusers should be placed in such numbers that they can compete with the females in the orchard and minimise the likelihood of males detecting their calls.

The minimum number of **ECODIAN® COMBI** diffusers required per application is 2000 per hectare; this number should be increased to 2500 to 3000 per hectare with high populations, and for tall and vigorous plants.

In orchards with ECODIAN® COMBI it is necessary to monitor with TRAPTEST for Cydia (Grapholita) molesta and Anarsia lineatella. This makes it possible to monitor the progress of the system by installing the monitoring traps before the start of the flights.

Trapping is very important and must be scrupulous. An absence of catches indicates that mating interruption has been effective and continues.

The work of ECODIAN® COMBI diffusers is influenced by climatic conditions; under normal conditions they last for about 50 to 60 days.

PACKAGE

ECODIAN[®] COMBI

CODE P-25016INFCO



CONTENT

1 BOX:

1000 green hook diffusers, in biodegradable material



ECODIAN[®] STAR consists of pheromone dispensers made of biodegradable and compostable MATER-BI plastic that does not release persistent microplastics into the environment. At the end of use, dispose in accordance with current regulations.

ECODIAN[®] STAR eliminates and/or minimises the mating of *Cydia pomonella*, the Codling moth, and *Cydia (Grapholita)* molesta, the Oriental fruit moth, through mating interruption.

TIPS FOR USE

ECODIAN[®] STAR should be applied before the beginning of the flight of the first generation of Codling moth (overwintering generation), following the indications of the forecasting models provided by the Phytosanitary Services and/or coinciding with the very first catches in Codling moth pheromone traps.

The application of diffusers from the second generation of Codling moth (beginning of second flight) can only be carried out if no damage has been detected on the fruit (ovideposition and/or larval penetration) from the chemically controlled first generation.

Apply ECODIAN[®] STAR dispensers on branches in the upper third, possibly in shaded areas, taking care that distribution is even while also protecting uncovered areas such as missing plant areas, any corridors and where plants are being trained. For best effectiveness the dispensers should be placed in such numbers that they can compete with the females in the orchard and minimise the likelihood of males detecting their calls.

The minimum number of **ECODIAN® STAR** diffusers required per application is 2000 per hectare: which number is to be increased to 2500 to 3000 per hectare with high populations, and with tall and vigorous plants.

In orchards with ECODIAN[®] STAR, monitoring must be carried out with CARPO or CARPO+ for Cydia pomonella and

TRAPTEST[®] for Cydia (Grapholita) molesta. This makes it possible to monitor the progress of the system by installing the monitoring traps before the start of the flights of the overwintering generation.

Trapping is very important and must be scrupulous. The absence of catches indicates that mating disruption has occurred and continues.

The work of ECODIAN® STAR diffusers is influenced by climatic conditions, while under normal conditions they last about 60 to 75 days.

	PACKAGE
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ECODIAN[®] STAR

CODE P-25016INFST





CONTENT

1 BOX: 1000 red hook diffusers, in biodegradable material



TEAM GEA for



Alessandro Alberio PRODUCT MANAGER/KEY ACCOUNT

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