



NATURE LED INNOVATION

About us

We are a customer-oriented company with over 10 years of experience in developing, producing and supplying safe green solutions for agriculture. We specialize in supplying Baculoviruses semi-chemical lures and traps to monitor insect pests and promote sustainable Integrated Pest Management (IPM) within agricultural, horticultural, storage and urban setting. Our goal is to promote a more effective, economical and environmentally friendly approach to pest management by incorporating sound IPM principles and science in the monitoring systems that we offer. We are also able to offer our customers help with pest identification, advice on suitable control strategies and effective practices that can be carried out to minimize outbreaks.

We are able to offer our customers the full package required to carry out an efficient pest monitoring program. In addition to our wide range of pheromone lures and Baculoviruses, we offer the most suitable traps for each pest species and supply our customer with all the relevant information, advice and documentation needed to manage their pest problems. Management decisions are only as good as the data that they are based upon. If a well- designed monitoring program is carried out the information recovered will be accurate and the decision on when to time a spray to catch exposed pests, for example, will be correct



Why use our products?

All the products that we offer are based upon research, trial results, and customer feedback. We are constantly striving to develop products and solutions for new and emerging pests while also improving upon our current range when the opportunity arises. As we begin to see more evidence of regional that we remain abreast of those knowledges and offer the most suitable lure for a species in a particular region to the benefit of our customers. We use feedback and trials from across the globe to determine the best solution for a particular pest.

	Conventional pesticides	Gronic solutions
 Safety	Poisonous & possibly toxic, a human health concerns.	Completely nontoxic; safe for humans pets and environment.
 Residue	Spray 100% of crop high residue risk	Contacts < 1% of crop –zero residue risk
 Approach	Reactive – chasing after pests	Proactive – control pests before they become a problem
 Collateral damage	Kills beneficial insects (e.g. bees, ladybugs)	Species-specific –only affects target pest
 Environmental footprint	Risk to soil & water systems	Soil & water systems unaffected
 Efficacy	Short field life, high of resistance	Long field life, no risk of resistance.

ATTRASAFE



Attractants play a huge role in preventing the establishment and invasion of various problematic pests. Pests and even wild animals usually are lured by special attractants because of their need for mating and reproduction. If there are pheromones in the air, they are easily drawn to the source, which pest control experts use to their advantage to seize and eliminate them.

Section 1- Lures

Insect Lures for “Good” and “Bad” Insects

Our formulations are based on naturally-occurring semiochemicals and can be used to help or protect crops in several ways.

The most popular use of attractants is to lure pests to traps for control via the mass trapping strategy. Attractants can also be used to induce beneficial insects to come to, and stay in, crops for goals such as enhanced pollination or natural pest protection.

Our semiochemicals insect attractants are made up of compounds—like pheromones, plant volatiles, flower oils, sugars and proteins—that mimic insect attraction systems found in nature. By identifying processes already existing in nature, Gronic can use them to create sustainable technologies to manage insects.



How to Use Insect Lures

Attract & Protect



+



Occasionally, pest populations are low enough that they can be controlled using traps. Gronic's attractants can be used to effectively call pests to traps for control via the mass trapping strategy.

Attract & Enhance



+



Gronic natural insect Lures can help or protect crops by calling on beneficial insects to do the work nature intended. Attract honeybees to pollinate plants and encourage fruit production. Attract natural predators, like ladybugs and lacewings, that can attack the pests causing damage to your plants.

Benefits of Natural Insect Lures



Targeted action

All our insect Lures target specific species or groups of insects, affecting only these targets without disturbing other insect species.



Natural efficacy

By mimicking and optimizing insect Lures systems already found in nature, we can manage insect populations in the most effective and efficient manner.



Safe for humans, pets & the environment

Our insect Lures contain compounds that are not harmful to humans or animals and leave no residues on plants or the environment..



Dispensers

We offer a wide range of different dispensers, all of which hold and release the active ingredient into the atmosphere in a controlled manner. Different dispensers have different properties, releasing certain chemicals at different rates for example, and therefore only certain dispensers are suitable for a certain pest. Our recommendations on which dispenser to use for each is based upon research and trials and are listed in the dispenser column in the product section.

Polyvials

Our polyvials are more suitable for pests requiring lower pheromone loading. the polyvial consists of a tube and cap. The active ingredient is absorbed by the plastic is slowly released when placed in the field.



Rubber Septum

We are able to offer rubber septum lures in two colors: beige and red. Rubber septa are the stalwart of the dispensers, serving this role for over 25 years. While these dispensers do not offer an entirely satisfactory release rate or long field life, their cheap price makes them the most suitable option for most moth sex pheromones.



Products key table

The tables on the following section list the pest species that we are able to offer products for and are categorized by crop attacked. The tables list the semiochemicals type offered and the recommended traps and dispensers that we offer the pest. We are always happy to discuss alternative with our customers so please feel free to contact us regarding alternative dispensers or traps. equally, if there is a pest not included in the lists below please contact us as we may well be able to offer a product or solution

Attractant type

- FA** Food Attractant
- P** Pheromone
- K** Kairomone
- P-P** Parapheromone

Lures

- ABS** Ammonium Bicarbonate
- PVS** Poly Vial
- RS** Rubber Septum
- WS** Wet lure

Traps

- D** Delta Trap
- LB** McPhail Trap
- SB** Sticky Board
- U** UniTrap
- W** Water Trap
- C** ConeTrap
- PL** Palm Trap



Agricultural Pests – Moths

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
<i>Agrotis ipsilon</i>	Black cutworm	P	RS	D, U
<i>Autographa gamma</i>	Silver Y	P	RS	D, U
<i>Etiella zinckenella</i>	Lima Bean Pod Borer	P	RS	D, U
<i>Liriomyza trifolii</i>	vegetable leafminer	P	RS	D
<i>Helicoverpa armigera</i>	Cotton Boll Worm	P	RS, PVS	U
<i>Helicoverpa zea</i>	Corn Ear Worm	P	RS, PVS	U
<i>Spodoptera exigue</i>	Beet Army Worm	P	RS	U
<i>Bactrocera cucurbitae</i>	Melon Fly	P-P	PVS	D
<i>Phthorimaea operculella</i>	Potato Tuber Moth	P	RS, PVS	---
<i>Spodoptera littoralis</i>	Egyptian Cotton Leaf Moth	P	RS, PVS	U
<i>Tuta absoluta</i>	Tomato Leaf Miner	P	RS, PVS	D, W, SB
<i>Franklinella occidentalis</i>	Western lower Thrip	P	RS	D, W, SB

Horticultural Pests – Others

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
<i>Bactrocera cucurbatae</i>	Melon Fly	P-P	WPL	D, LB
<i>Ceratitis capitata</i>	Mediterranean Fruit Fly	P-P	RS, WPS	D, H
Gravid female <i>Ceratitis capitata</i>	Mediterranean Fruit Fly	K	WS	C, LB



Palm Pests – Moths & Others

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
Rhynchophorus ferrugineus	Red Date Palm Weevil	P	WPL	BU
Batrachedra amydraula	Lesser Palm moth	P	PVS	D

Olive and Vine Pests – Moths

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
Cryptoblabes genidiella	Christmas Berry Moth	P	RS	D
zeuzera pyrina	Leopard moth	P	PVS	D,U
Lobesia botrana	European Grapevine Moth	P	RS, PVS	D, U
Palpita unionalis	Jasmine Moth	P	RS	D
Prays oleae	Olive Moth	P	RS, PVS	D,U
Bactrocera Oleae	Olive Fruit Fly	P, P+FA	PVS, PVS+ABS	LB, SBC

Orchard and Citrus fruit Pests – Moths

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
Prays citri	Citrus Flower Moth	P	RS	D
Phyllocnistis citrella	Citrus leafminer	P	RS	D
Bactrocera cucurbutae	Melon Fly	P-P	WPL	D, LB,C
Bactocera zonata	Peach Fruit Fly	P-P	WPL,L	D,LB,C
Ceratitis capitata	Mediterranean Fruit Fly	P-P	WPL,L	D,LB,C

Stored Products Pests – Moth

PEST	COMMON NAME	ATTRACTANT TYPE	LURE	TRAP
<i>Plodia interpunctella</i>	Indianmeal moth	P	RS	D,U
<i>Lasioderma serricorne</i>	Cigarette Beetles	P	RS	D,U





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