

# Pheromone trap : Stored grain insects

## M2i technology :

- Unique patented process of pheromone **micro-encapsulation**
- 100% green and biodegradable
- New formats and innovative application methods
- Regulated and prolonged rate of pheromone release for greater efficiency
- Simplified storage possible at room temperature
- Long shelf life: **2 ½ years**
- Compatible with different types of traps

## Manual

We advise you to use the syringe Sitophy Pro Caps in combination with the probe trap.

### Preparation :

- Unscrew the transparent cone from the trap, empty the contents of the syringe inside and then screw the cone on the metal tube
- Bury the metal tube in the grain. The top of the red cap must be at the grain level

The tube has 2 mm diameter perforations allowing insects to enter into the tube. Insects attracted by the pheromone and kairomones enter into the trap and fall into the detachable transparent cone.

### Utilisation :

- For detection place one trap every 10 meters, or 2 per container, or 1 per bag of grain.
- Check and empty the trap, without replacing the pheromone, about every week.
- If no weevils are caught, the food is protected and no further treatment is needed.
- One dose allows **3 months** of detection
- Think about filling the cracks in the walls to prevent the insects from lodging there and leave no grain residue. Destroy contaminated batch.

**Composition :** syringe of 0,5mL (=0,45g)  
10mg of 4S5S-sitophinone ; dominicalure I & II ; wheat germ oil

## Treatment period :



Set up the trap during the grain storage period.  
Icons made by [www.freepik.com](http://www.freepik.com) from [www.flaticon.com](http://www.flaticon.com)

PHERO BIO CAPS

PHEROMONE DISPENSER



### Recommendations / Security

Keep out of reach of children.  
Keep away from pets.  
Keep away from food and drinks.  
Keep in its original packaging and respect the uses, doses, conditions and precautions for use mentioned. Do not freeze.  
Do not eat, drink or smoke while using. Wash hands after handling.  
Discard emptied and rinsed containers in the household trash.

### First aid:

In case of contact with eyes, rinse with water as a precaution.  
In case of contact with skin, wash with plenty of water.  
If swallowed, do not induce vomiting, rinse mouth and seek medical attention.  
If you feel unwell, seek medical advice and show the label.

Product usable in organic gardening.

# Pheromone trap : Stored grain insects



## Stored grain insects (*Sitophilus granarius* / *zeamais* / *oryzae*; *Rhyzopertha dominica*; *Oryzaephilus surinamensis*; *Tribolium castenaum* / *confusum*)

Damages are caused by adults which eat whole grains or flour, and larvae that grow in grains.

Weevils measure between 2.5 and 5mm, are brown-hazel, reddish-brown or shiny black, and their head is extended into a rostrum (a sort of "little snout").

Lesser grain borers measure 2.3 to 3mm, are red-brown to black and have a long cylindrical body.

The Sawtoothed grain beetle measures 3mm, and is dark brown.

The red and brown flour beetles measure 3 to 4mm and are brown or reddish brown.

Signs of infestation are holes drilled by adults emerging from the grains, increased moisture and surface heating, large accumulation of dust resembling flour, a sweet smell in the grain. High density of flour beetles can also give a pinkish color to the grains they infest.

## Host plants

Each species has its own cereal of choice, but can also attack other cereals.

## Detection strategy : pheromone / kairomone monitoring

Pheromones are substances secreted by an insect and, when received by an individual of its species, cause one or more specific reactions. Monitoring through the use of sex pheromones / kairomones attracts and traps males and females to detect the possible arrival of an insect that represents a threat to the crop. This allows to trigger in time a curative intervention or to measure the effectiveness of a treatment by checking the presence or absence of the pest on the plot, or monitoring the levels of infestation.

## Benefits

Effective/ Selective / Harmless for fauna, flora, operators and local residents / No residues or inputs / No resistance mechanisms.