

ECOLAB

Moth Mating Disruption Program



The Ecolab mating disruption program protects your site against the main species of moths (*Plodia* and *Ephestia*) in food production and storage areas.

Mating disruption is a biological control process targeting certain moths species :



Indian Meal Moth
Plodia interpunctella



Mediterranean Flour Moth
Ephestia kuehniella



Warehouse Moth
Ephestia elutella

Did you know ?

An infestation can start with moths (adults) or with larvae (caterpillars) moving from one infested product to another.

Adult moths only live for a short period-one week to ten days and do not feed.

After mating, females find a suitable place to lay their eggs. Each female is capable of laying **100 - 300 eggs**. They lay their eggs near a food source to provide access to nutrient rich types of food for survival.

How does mating disruption work?



It is a **non-toxic and residue free solution** that can safely be used in food processing and stored product areas to eliminate the infestation of food moths *Plodia* and *Ephestia*.

The dispensers in the Ecolab mating disruption program release large quantities of **pheromone** into the air to confuse male moths.

This overwhelms the male moths' senses and prevents them from finding and mating with female moths which results in a sharp decline in moth population as male and female moths fail to mate.



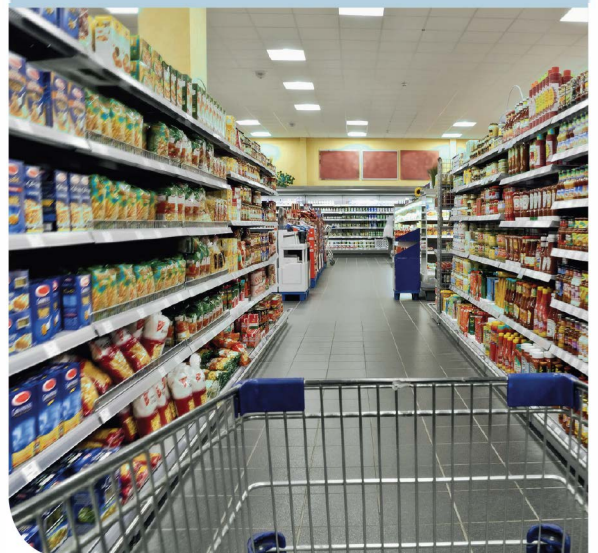
The process occurs over several generations before noticeable results can be seen.

A significant risk to your production site

■ *Plodia* and *Ephestia* are some of the most widespread and destructive moth species. These pests become a serious threat to the dried food processing industry worldwide. The larvae feed on stored dry fruits, grains, cereals, chocolate, nuts, legumes and result in substantial economic loss to the food processing industry and storage facilities.

■ Managing moths using pheromone is a delicate task. Site management has to be involved every step of the way and willing to integrate pest prevention with other disciplines in the factory or site such as maintenance, hygiene and quality control.

■ Mating disruption will only be effective if proper cleaning, storage and maintenance procedures are followed.





Trust Ecolab to Help You Win the Fight Against Pests

Ecolab's innovative pest solutions are customisable and designed to help you maintain a safe, healthy and pest free environment. We utilise our people's expertise, collaborative and pro-active approach to solve the most complex pest challenges.

By continually driving innovation, our superior solutions are science-based that ensure food safety, protect your brand and bottom line, today and in the future.

Mating disruption program

1 INSPECTION & EXPERTISE

An inspection by an expert is essential to identify affected and to be treated areas.

It includes mapping and monitoring of infestations on the site.

This allows identification of high risk areas and the opportunity to provide advice regarding cleaning, maintenance and storage.

2 TREATMENT

Dispensers are installed in infested areas and serviced quarterly which includes the replacement of pheromone.

This includes an evaluation of the effectiveness of the program.

3 PARTNERSHIP

Recommendations on preventative hygiene and structural issues are raised and corrective actions are recommended after every service visit.

Benefits of the program

A sustainable pest management approach:

- Program targeting mating disruption or sexual confusion
- Non-toxic and zero residue in treated areas and commodities
- Continuous preventative control strategy
- Release of a steady amount of pheromone over 3 months

For more information on the Ecolab Mating Disruption program please contact us.

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