COMPANY PROFILE
&
PRODUCT CATALOG

Visit our website for more details

Contact us for any inquiries and feedback

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FUJI FLAVOR CO., LTD.

Expert in Tobacco Flavor and Pheromone Trap Business

With history of over a half a century, FUJI FLAVOR has been consistently striving after quality generated by the reliable technology

FUJI FLAVOR CO., LTD. was established in 1971 for the purpose of research & development and manufacturing of tobacco flavors as the first subsidiary of Japan Tobacco Inc., JT Group (former Japan Tobacco). FUJI FLAVOR has been expanded to two business; Tobacco Flavor Business and Ecomone Business.

01

Our Origin is in Tobacco Flavors

As a member of JT Group, we develop, manufacture and supply tobacco flavors with the knowledge and technology that we have cultivated for several years.

02

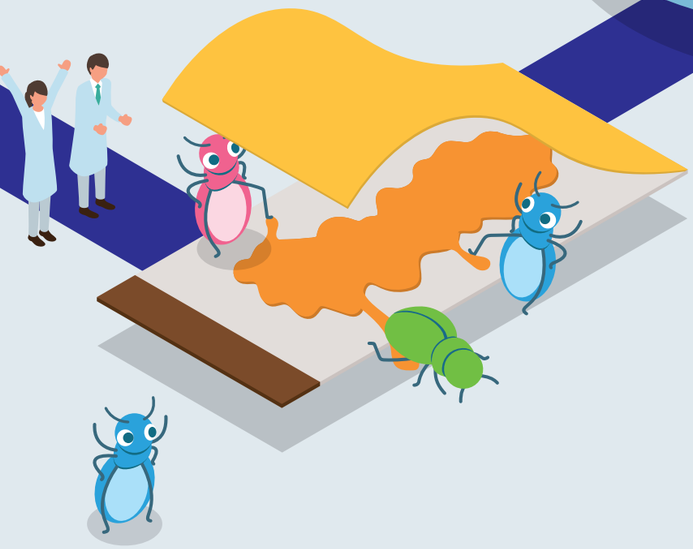
Consistent operations (R&D, production and sales)

In order to meet the diverse needs that change with the times, we continue to develop new flavors by collaboration with JT. We also combine flavor production technology and quality control methods to produce tobacco flavors that exceed customer's expectation.

03

Launch of the World's 1st pheromone trap in 1981

With ecological research of insects and advanced organic synthesis technology, we developed the world's 1st pheromone trap targeting tobacco beetles. Then, we established a technology for monitoring the occurrence of insects and we supply pheromone traps with powerful attraction for many years.



04

Delivering high quality products worldwide

We supply unique tobacco flavors for the individual brands to customers in over 30 countries. Also, our pheromone traps are used in more than 100 countries and they contribute to effective pest management in many industries all over the world.

ECOMONE BUSINESS

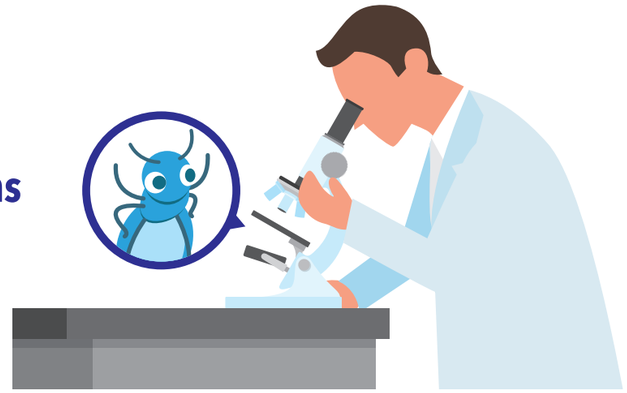
The reasons behind why you should choose FUJI FLAVOR's pheromone traps

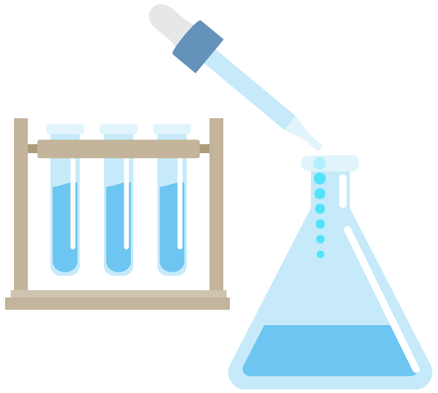
We are specialized in manufacture of pheromone traps for stored product insects. Our products are developed with intelligence, produced with advanced technology and supplied with confidence. The key points of our business are as follows:

01

Entomologists involved in R&D teams

For development of pheromone traps, daily research based on ecology of insects is conducted within our premises by highly skilled R&D team.





02

High technology used for pheromone synthesis

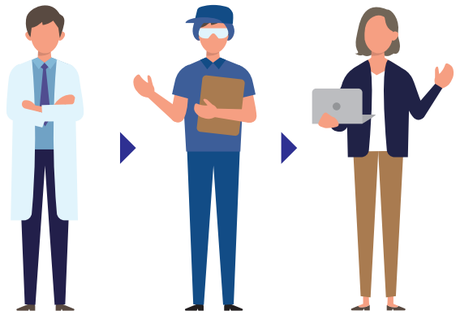
We develop many types of pheromone lures targeting different insects inside company's premises using highly advanced technology such as NMR among others.

03

3 functions of thorough operation in the supply chain

(R&D, Manufacturing and Sales)

Ecomone Business consists of 3 functions, involving from the research & development of pheromone traps, manufacturing, ensuring the high quality of products and selling it worldwide.



04

Use of advanced equipment and technology

We create an environment for experiments of ecology of insects. We also assure high quality with use of analytical equipment such as GCMS among others.

05

Delivering high performance products

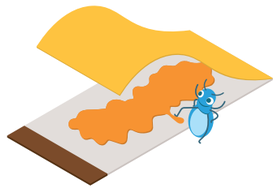
For accurate monitoring, it is necessary to precisely grasp the outbreak situation of insects at site, which is only possible with "High Performance of Pheromone Traps".

Lure

Durable and Powerful Attraction

Glue Board

Use of glue board that matches with target insect



06

Obtained certification for quality

We have acquired and continue to maintain international standards certification for its quality management system and environment system.

- ISO9001: Quality management system
  Certification certificate number: 01885-2001-AQ-KOB-UKAS / JAB
- ISO14001: Environmental management system
  Certification certificate number: 01317-2005-AK-KOB-UKAS / JAB
  Scope of certification: Design, development and manufacture of fragrances and insect attractants

07

Delivering our products to more than 100 countries worldwide

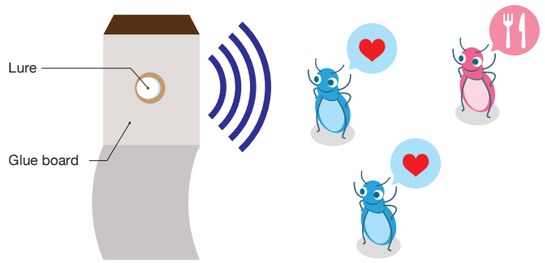
Our pheromone traps are sold to more than 100 countries and they contribute to effective pest management in food industries, tobacco industries and many industries all over the world.

PHEROMONE TRAP FOR MONITORING PURPOSE

What is Pheromone trap?

Pheromone trap is used as a monitoring tool that has pheromones of target insect. Normally, pheromone trap consists of lure and trap. The lure has attractants which attract the insect (adult) and trap has glue board which capture the insects.

Image of pheromone trap

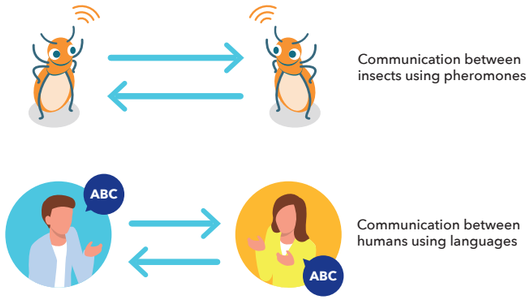


Pheromone trap uses pheromone, the communication tool of insects to actively attract the target insects. Since pheromones can attract only same type of species of insects, it is not necessary to put time and effort in identification of captured insects.

What is Pheromone?

Pheromones are natural chemical substances that same species of insects use to communicate and to find each other. Insects communicate with their peers by releasing pheromones from their body, just as human beings communicate with each other by languages.

Pheromone, which is regarded as language of insects come in many varieties. Among those, the one which opposite sex attracts is called sex pheromone and the one where the groups attract, is called aggregation pheromone. These two types of pheromones are used in FUJI FLAVOR's trap for monitoring.

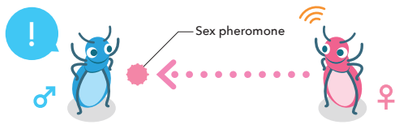


Communication between insects using pheromones

Communication between humans using languages

■ Sex Pheromone

Some insects with short adult lifespans use sex pheromone to find the opposite sex and leave offspring efficiently during their short lives. Sex pheromone has strong attractiveness and, in most case, males get attracted to this pheromone.



Used between males and females to produce offspring

■ Aggregation Pheromone

Aggregation pheromones, unlike sex pheromones, attract both males and females. However, they are generally considered to be less attractive than sex pheromones.

Used between adult males, females and larvae to form groups

Special features of Pheromone Trap

Easy to use without any expertise

It enables to attract only target insect of same species.

Relatively more safe

The pheromone used in pheromone trap is eco-friendly and can be decomposed easily without affecting the environment.

Easy to operate

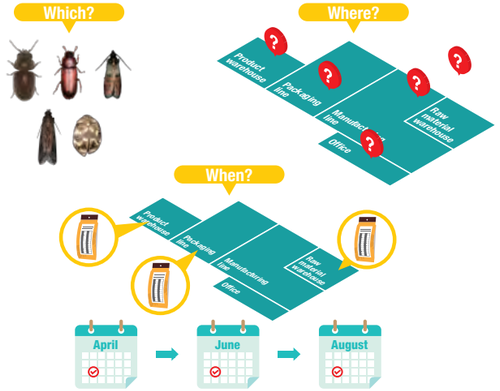
It is easy to assemble and use.

Easy to place

It does not require electricity power.

WHAT IS MONITORING?

Monitoring generally means "to observe" and "to visualize" the things in various situations. Monitoring the insects is a series of steps that includes setting the trap in monitoring area, conducting regular observations and analyzing the traps (recording the types and number of insects caught). By continuously implementing this series of procedures, it is possible to find out the occurrence of insects yearly and verify the effectiveness of pest control work. The accumulated data can also be used as reference material for investigating and explaining the causes of problems such as foreign matter contamination. In order to improve the accuracy of monitoring of insect, it is very important to accumulate data over a long period of time.



WHAT IS IPM?

INTERGRATED PEST MANAGEMENT (IPM) is a broad-based approach of pest population management utilizing a combination of suitable techniques to reduce pest population below the economic injury level and minimize risks to human health, non-target organisms and the environment. In the context of IPM, monitoring is one of the key components because it is essential to obtain the site information to implement IPM practice.

As a monitoring tool, pheromone trap is used in many factories. The purpose of using pheromone trap is not to eliminate insects but to support a good pest management routine by providing solid data for making a pest control strategy and checking the success or failure of control measures.

What Pheromone Traps can do, interms of monitoring?

It is helpful to acquire the following information:

- **Identification of insect species**
- **Identification of status of habitat of insect**
- **Identification of timing of infestation and internal development (in factories, warehouse) of insect**
- **Identification of location of infestation and internal development (in factories, warehouse) of insect**

By identification the above information, it helps to make decision making about pest control measures for future plans.

FLOW CHART OF PDCA CYCLE

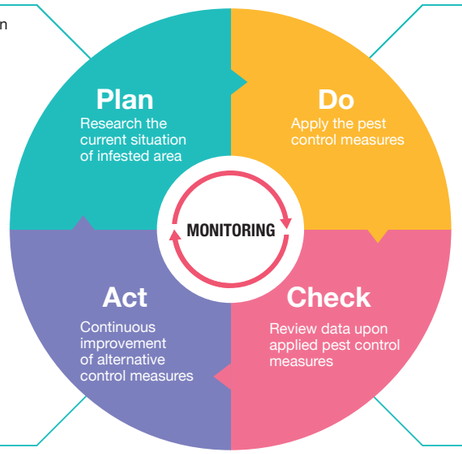
The PDCA (**Plan ➡ Do ➡ Check ➡ Action**) cycle is a method to propose effective pest management in improving field conditions and quality control situations. Pheromone traps made by FUJI FLAVOR are exclusively designed for monitoring purposes in order to improve these kinds of situation. In order to efficiently formulate pest control measures, the PDCA cycle with use of pheromone trap for pest management needs to be constantly running.

01 Plan

Research and analyze the infestation situation of insects found in the factories, warehouses and its surroundings. Also, identify the problem faced in those areas and make a pest management plan to improve this problem.

*Pheromone trap is a tool used to research and analyze the infestation situation.

Use Pheromone trap



*The base of PDCA cycle is called Monitoring and this key word is important in all four (Plan ➡ Do ➡ Check ➡ Action) cycle.

02 Do

Implement various measures according to the plan
For example:

- Identify the source of outbreak of insects by using pheromone trap
- Mechanical controls such as building fences, barriers, electronic wires or weeding, cleaning the surroundings, changing the temperature of environment, etc.
- Chemical controls such as spraying insecticide, doing fumigation, etc.

03 Check

Evaluate the qualitative and quantitative efficiency of implemented measures

*Pheromone trap is a tool used to research and analyze the infestation situation.

Use Pheromone trap

04 Act

If the expected result is not obtained with this cycle, identify the problem and change the plan. Repeat the cycle with a new plan. For example: adopt better site and timing selection for pest control.

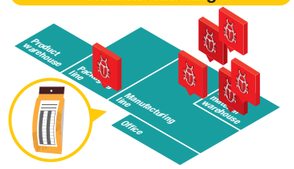
ADVANTAGES OF MONITORING

01 Forecasting timing of occurrences and discovery of early outbreak of insects

Without monitoring

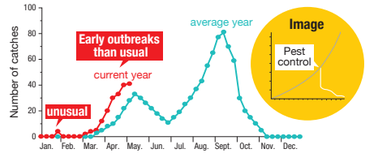
Detecting insects is not possible until they infest products and by the time they are noticed, it is very late

With monitoring



- Helps in selecting the timing of control
- Detecting outbreaks at early stage helps prevent spread of huge damages

Seasonal Prevalence of Catches



By keeping the yearly record, it helps to determine the emergence period numerically

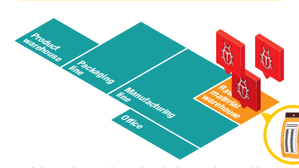
02 Understanding distribution of target insects

Without monitoring

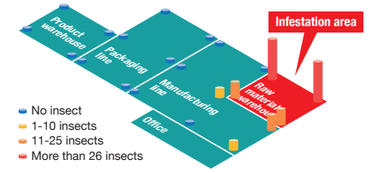
Large effort!!

When a single insects is detected, production line needs to be paused and pest control needs to be applied on all the floors. It takes a lot of effort and cost.

With monitoring



- After detecting the infestation of insects in a particular location, only that particular location can be controlled, which ultimately lead to use of less chemical
- Less effort and work to control the insects



Each bar indicates the number of insects trapped per trap.

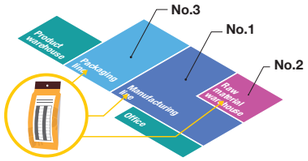
By doing the monitoring in predicted infest area at regular intervals, it is possible to figure out the location and level of infestation by figures and makes the work easy

03 Comparing data; before and after control

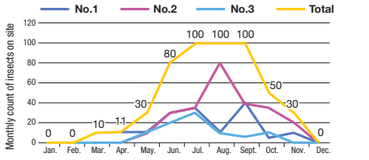
Without monitoring

Constantly implementing pest control measures such as spraying pesticides makes it hard to determine their effectiveness

With monitoring



- It helps to determine the effectiveness of control measures
- It become easier to plan for future measures



(*This graph is taken as a model for explanation, not based on actual data.)

The monitoring data by using pheromone traps enable to assess effectiveness of pest control numerically.

- For area of Trap No.1, treatment in Aug was performed but not effective to root cause
- For area of Trap No.3, treatment was successful which lead to a low count

Key points to monitor insects

Consistent conditions are essential for regular monitoring in order to identify the source of occurrence of insects and situation of surrounding

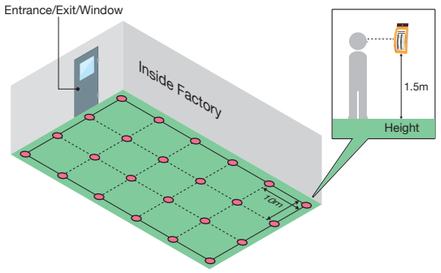
- Conduct insect inspection on a fixed schedule (Weekly inspections is recommended)
- Replace the traps on a regular basis (Monthly replacements is recommended)

*If same method of monitoring is not conducted, it may be time consuming to identify the insect and difficult to compare the data of captured insects.

HOW TO USE A PHEROMONE TRAP?

Step 01 | Placement of trap

1. Check the effective range of trap (The effective range may be different depending on brand of pheromone trap).
2. Draw the grid lines at 10 meters interval in each area of factory.
3. Set a trap on each intersection point of the grid lines so the effective area does not overlap.
4. Set the trap in height of eye line for making it easy to check (about 1.5 meter height recommended)

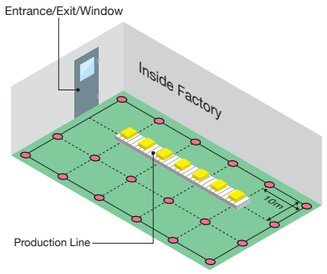


Step 02 | Remove the trap

1. If the trap is set near production line, there is a chance that the insects attracted may bring foreign contamination to the food.
2. If the trap is set near entrance/exit/window (within 5 meter or less), it may lead to attraction of insects from outside.

Other tips of installation

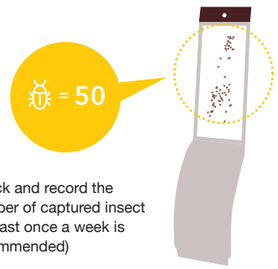
- **Check the wind direction:** The effect of pheromone may be affected by the flow of wind. It is necessary to check the wind direction carefully.
- **Check the movement of people:** It is necessary to pay attention to the people coming in and going out of factories/warehouse as there is chance that the insects may enter during this process.
- **Refrain from placing the trap near ventilator area:** It may attracts several kinds of substances through its sucking power, which narrows the effective range and may lead to decrease in insect catching power. If the air is exhausted outside, it may attract insects from outside.



Step 03 | Check the trap

Conduct insect inspection by counting and recording the number of insects captured on a trap (Weekly inspection is recommended)

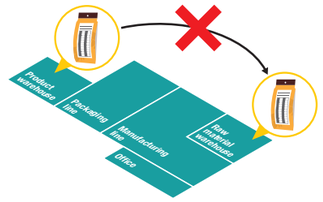
*It is necessary to conduct inspection within a short period of time (about a week) for an effective monitoring. It helps to understand the captured level of insects within a month.



Check and record the number of captured insect (at least once a week is recommended)

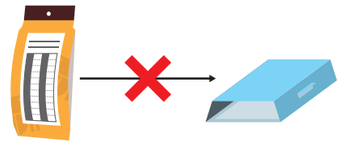
Key points to install trap

It is possible to accurately identify the risk of insect and compare the data by understanding the key points below.



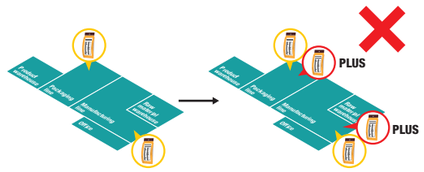
Same location

Do not change the trap location. Placing the traps on the same location helps to get the accurate data of insects and figuring the risk of infestation.



Same product

Use the same brand of pheromone trap while monitoring as it helps to compare the risk of insects found in same environment.



Same number of traps

By setting the same number of traps, it is possible to compare the risk of insects by obtaining the accurate data of infestation.

Comparison between other types of monitoring traps

There are three main type of monitoring traps : Pheromone Trap, Light Trap and Adhesive Trap

■ Advantages and Disadvantages of 3 type of monitoring traps

	Pheromone Trap	Light Trap	Adhesive Trap
Insect identification	Easy (Enable to catch only targeted insects)	Difficult (Wide variety of insects can be caught)	Difficult (Wide variety of insects can be caught)
Location of installation	Can be install anywhere *only to be careful of wind direction	Can be install only where there is power supply	Can be install anywhere
Source of attraction	Pheromone/Active	Ultraviolet lamp/Active	No source of attraction/Passive
Initial cost	Low cost (to buy traps only)	High cost (to buy the trap and secure power supply)	Low cost (to buy traps only)
Operability (installation time)	Simple (takes 1 minute to install)	Somewhat difficult (takes several minutes to install)	Simple (takes 1 minute to install)
Attraction power	Very strong	Strong	No attraction power
Feature of Attractant	Pheromone spreads even into narrow space	Light is blocked by object	No attractant
Use for other purpose than monitoring	Purpose to search the source of target insects	Purpose to catch the mass amount of insects	Not available

Pheromone trap is an appropriate tool for monitoring as it has the advantages of being easy to install, easy to set up, high attracting power and easy to identify species of insects.

TARGET INSECTS

Identifying the type of insect is very important for effective pest control

Flying insects


Tobacco beetle


Tobacco moth


Indian meal moth


Rice moth


Drugstore beetle


Carpet beetle


Almond moth


Mediterranean flour moth

Crawling insects


Red flour beetle


Confused flour beetle


Lesser grain borer


Saw-toothed grain beetle

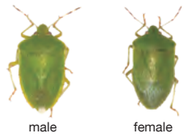

Khapra beetle


male female
Flat grain beetle


Maize weevil

Agricultural insects


Bean bug


male female
Southern green stink bug


Soybean beetle


Japanese beetle

PRODUCT LINEUP

Flying insects

Crawling insects

Agricultural insects

To support effective and environmentally friendly pest management worldwide, we have created an extensive lineup of products designed for a wide variety of flying, crawling and agricultural insects to be used in various industries and fields. All products have been developed to meet the characteristics of target insects.

*Please kindly note that products targeted for agricultural insects are currently sold within Japan only due to some regulatory issues. We need some more time to open the selling channels to other countries/overseas.

FOR STORED PRODUCT INSECTS

NEW SERRICO

Page 14

Target Insects
- Tobacco beetle

GACHON

Page 15

Target Insects
- Indian meal moth
- Tobacco moth
- Rice moth
- Almond moth
- Mediterranean flour moth

SERRICO W+

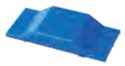
Page 16

Target Insects
- Tobacco beetle
- Tobacco moth
- Indian meal moth

HIRESIS

Page 17

Target Insects
- Drugstore beetle
- Carpet beetle



TORIOS & TORIOS MULTI

Page 18

Target Insects
- Red flour beetle
- Confused flour beetle
- Saw-toothed grain beetle
- Lesser grain borer
- Flat grain beetle
- Khapra beetle
- Maize weevil

FOR AGRICULTURAL INSECTS*

FIELDCATCH

Page 19

Target Insects
- Bean bug
- Rice bug
- Unibanded stink bug
- Japanese mealybug
- Comstock mealybug
- Southern green stink bug

NEW WINDSPACK

Page 20

Target Insects
- Japanese beetle
- Soybean beetle
- Cupreous chafer
- Anomala octiescostata
- Oriental beetle
- Green chafer

Other products

Target Insects
- Migdolus
- Bicho Furao
- Coffee leafminer
- Soybean looper moth
- Andean potato tuber moth

FOR STORED PRODUCT INSECTS

NEW SERRICO

Target insect

- Tobacco beetle

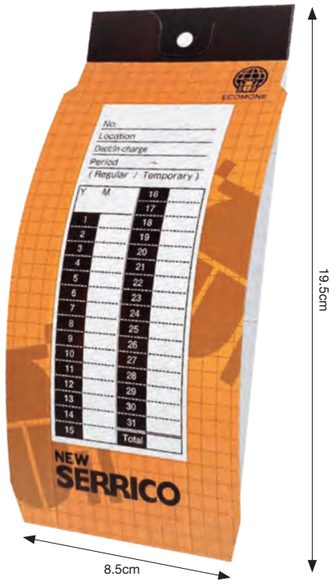
Insects habitat & food

▸ **Habitat:** food factories, tobacco factories, warehouses, pharmaceutical plants
▸ **Food:** grains, spices, dry pet food, confectionery, Chinese medicines, dried bonito products, forage, tobacco, etc. Extremely wide-range of host food

Developed as World's 1st pheromone trap to monitor tobacco beetle and is regarded as global de facto standard in the tobacco industry

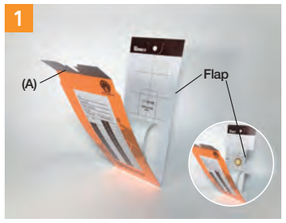
FEATURES

- Especially designed traps based on thorough research of ecology of tobacco beetle
- Useful for early detection of tobacco beetles, determining their source, and investigating seasonal variation in their emergence
- By using 1 lure(contains both sex pheromone and food attractant), not only male but also female adults can be captured
- Dust proof features by folding up the side flaps helps to protect the sticky glue board in dusty environment



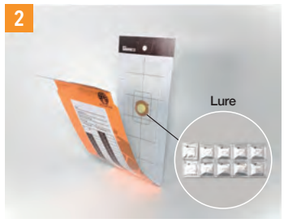
Assembling the device

1



Fold the device along with the crease (A) and peel off the release paper from the glue surface.

2



Take out one lure from the strip and set it on the appropriate position of the glue board.

PRODUCT INFORMATION

Placement

- **Installation:** Place device on the wall 1.5m above the floor
- **Interval:** 5-10 meters recommended
- Avoid placing device near machinery or production lines as they may attract insects to these places
- Placing device near entrance may attract insects inside from outside.
  Place it 10-20 meters away from the entrance or exit.

Shelf life: 1 year from manufacturing date

Replacement: 1 month of use

*Avoid sunlight and store the product at room temperature in a dark place.

Packaging

Minimum Order Quantity: 100pcs

10 devices, 10 lures (1 strip)/small box
100pcs/cardboard box (10 small boxes/cardboard box)

- Total Weight: 2.3kg for 100 pcs
- Dimension: (L)10cm x (W)36cm x (H)22cm

200pcs/cardboard box (20 small boxes/cardboard box)

- Total Weight: 4.3kg for 200 pcs
- Dimensions: (L)20cm x (W)36cm x (H)22cm

FOR STORED PRODUCT INSECTS

GACHON

Target insects

- Indian meal moth
- Tobacco moth
- Rice moth
- Almond moth
- Mediterranean flour moth

Insects habitat & food

▸ **Habitat:** food factories, tobacco factories, warehouses, rice milling plants
▸ **Food:** wheat, rice, corn and their processed food products, beans, oil seeds; sesame and nuts, dried fruits, cocoa, chocolate etc.

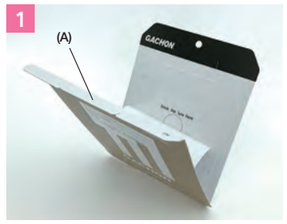
Resistant to the scales of target moths, strong attraction and does not require much space for monitoring

FEATURES

- Target five moth species well known as food insects
- Especially designed traps based on thorough research of ecology of moths
- Useful for early detection of moths, determining their source, and investigating seasonal variation in their emergence

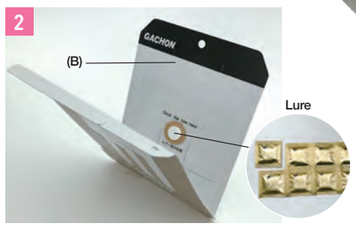
Assembling the device

1



Fold the upper part of the device along the crease (A) and peel off the release paper.

2



Take out one lure from the strip and set it on the appropriate position of the glue board.

PRODUCT INFORMATION

Placement

- **Installation:** Place device on the wall 1.5m above the floor
- **Interval:** 5-10 meters recommended
- Avoid placing device near machinery or production lines as they may attract insects to these places
- Placing device near entrance may attract insects inside from outside.
  Place it 10-20 meters away from the entrance or exit.

Shelf life: 1 year from manufacturing date

Replacement: 1 month of use

*Avoid sunlight and store the product at room temperature in a dark place.

Packaging

Minimum Order Quantity: 100pcs

10 devices, 10 lures (1 strip)/small box
100pcs/cardboard box (10 small boxes/cardboard box)

- Total Weight: 2.6kg for 100 pcs
- Dimension: (L)15cm x (W)28cm x (H)21cm

SERRICO W+

Target insects

- Tobacco beetle
- Tobacco moth
- Indian meal moth

Insects habitat & food

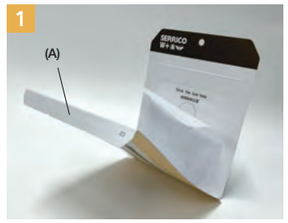
▸ **Habitat:** food factories, warehouses, tobacco factories, pharmaceutical plants, rice milling plants
▸ **Food:** wheat, rice, corn, and their processed food products, spices, dry pet food, confectionary, Chinese medicines, dried bonito products, beans, oil seeds, dried fruits, cocoa, chocolate, etc.

FUJI FLAVOR's 1st pheromone trap for multiple species, catching three insects with one lure

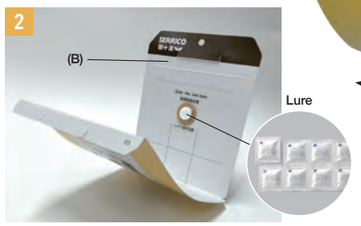
FEATURES

- Special feature to capture three types of insects with one lure, which minimizes the assemble and installation time into half
- Printed calendar on trap helps for easy recording during monitoring
- Stable performance is achieved by controlling pheromone volatilization

Assembling the device



Fold the upper part of the device along the crease (A) and peel off the release paper.



Take out one lure from the strip and set it on the appropriate position of the glue board.

PRODUCT INFORMATION

Placement

- **Installation:** Place device on the wall 1.5m above the floor
- **Interval:** 5-10 meters recommended
- Avoid placing device near machinery or production lines as they may attract insects to these places
- Placing device near entrance may attract insects inside from outside.
  Place it 10-20 meters away from the entrance or exit.

Shelf life: 1 year from manufacturing date

Replacement: 1 month of use

*Avoid direct sunlight and store the product at room temperature in a dark place.

Packaging

Minimum Order Quantity: 100pcs

10 devices, 10 lures (1 strip)/small box
100pcs/cardboard box (10 small boxes/cardboard box)

- Total Weight: 2.6kg for 100 pcs
- Dimension: (L)15cm x (W)28cm x (H)21cm

HIRESIS

Target insects

- Drugstore beetle
- Carpet beetle

Insects habitat & food

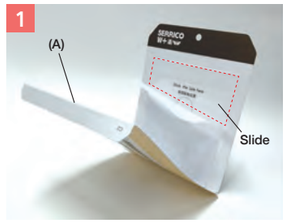
▸ **Habitat:** food factories, warehouses
▸ **Food:** dried-vegetable based food, mushroom, dried noodles & fruits, Chinese medicine, confectionaries, spices, brown rice, wheat, and other grains, dried fish, carcasses of insects and small animals, clothing, carpets, wool fabrics, etc.

FUJI FLAVOR is the only company in the world that has developed this pheromone trap with specific attractant for drugstore beetle

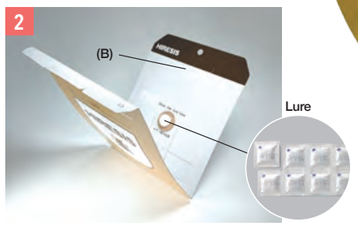
FEATURES

- Targets two types of insects, Drugstore beetle and Carpet beetle (*different lures are used for each species)
- Designed with unique custom slide to effectively monitor even the highly cautious insects like drugstore beetle
- User friendly with ease to assemble and disposal

Assembling the device



Fold the upper part of the device along the crease (A) and peel off the release paper.



Take out one lure from the strip and set it on the appropriate position of the glue board.

PRODUCT INFORMATION

Placement

- **Installation:** Place device on the wall 1.5m above the floor
- **Interval:** 5-10 meters recommended
- Avoid placing device near machinery or production lines as they may attract insects to these places
- Placing device near entrance may attract insects inside from outside.
  Place it 10-20 meters away from the entrance or exit.

Shelf life: 1 year from manufacturing date

Replacement: 1 month of use

*Avoid sunlight and store the product at room temperature in a dark place.

Packaging

Minimum Order Quantity: 100pcs

10 devices, 10 lures (1 strip)/small box
100pcs/cardboard box (10 small boxes/cardboard box)

- Total Weight: 2.6kg for 100 pcs
- Dimension: (L)15cm x (W)28cm x (H)21cm

FOR MULTIPLE STORED PRODUCT INSECTS

TORIOS & TORIOS MULTI

Target insects

- Red flour beetle
- Confused flour beetle
- Saw-toothed grain beetle
- Lesser grain borer
- Flat grain beetle
- Khapra beetle
- Maize weevil

Insects habitat & food

▸ **Habitat:** food factories, warehouses, rice, barley and flour milling plants
▸ **Food:** wheat, rice, corn, barley, rice bran, dried noodles, nuts, dried fruits, vegetables, yeast, milk powder, oil seeds, coconut, cocoa, rice cakes, cassava, etc.

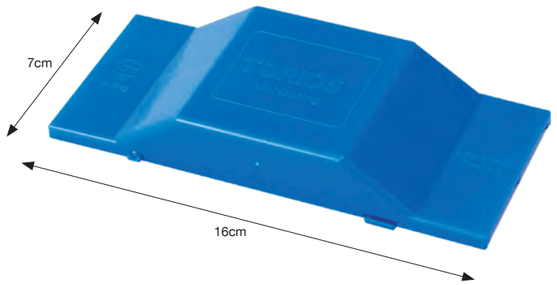
Designed with DROP-N-CATCH technology trap which enables capturing cautious insects which dislike the glue board, in one shot

FEATURES of TORIOS

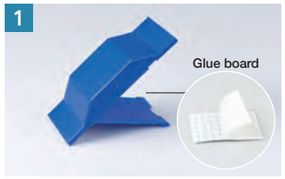
- The device is reusable which supports cost-efficient and environment friendly pest management
- By changing the lures only, this device can be used to monitor seven species of crawling insects

FEATURES of TORIOS MULTI

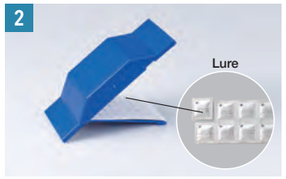
- The device is used for “habitat survey” and “monitoring” seven species of crawling insects with 1 lure
- Effective in finding out existence of seven types of crawling insects in a particular area



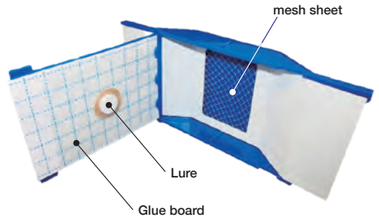
Assembling the device



Open the bottom lid of the device. Peel off the release paper from glue board. Insert the glue board into the clips on the bottom lid.



Take out the lure from the strip or bag and set it on the center of the glue board.(Each type of lure should be placed if it is plural lure type product) Close the bottom lid of the device.



PRODUCT INFORMATION

Placement

- **Installation:** Place device on the floor
- **Interval:** 5-10 meters recommended
- Avoid placing device near machinery or production lines as they may attract insects to these places
- Placing device near entrance may attract insects inside from outside.
  Place it 10-20 meters away from the entrance or exit.

Shelf life: 1 year from manufacturing date
(*TORIOS MULTI: 6 months from manufacturing date)

Replacement: 1 month of use
(*TORIOS MULTI: 2 weeks)

*Avoid direct sunlight and store the product at room temperature in a dark place.

Packaging

Minimum Order Quantity:
TORIOS: 50kits/ sets | TORIOS MULTI: 10kits/sets

Device Set
- 50 devices, 50 lures *(5 strips) and 50 glue boards/cardboard box
- Total Weight (including outer package): 3.3kg for 50 kits
- Dimensions: (L)42cm x (W)25cm x (H)18cm

*For TORIOS MULTI: 10 or 50 devices

Lure Set
- 50 lures *(5 strips) and 50 glue boards/cardboard box
- Total Weight (including outer package): 0.6kg/50 sets
- Dimensions: (L)15cm x (W)28cm x (H)22cm

*For TORIOS MULTI: 10 or 50 lures

FOR AGRICULTUREL INSECTS

FIELDCATCH

Target insects

- Bean bug
- Rice bug
- Unibanded stink bug
- Japanese mealybug
- Comstock mealybug
- Southern green stink bug

Insects habitat & food

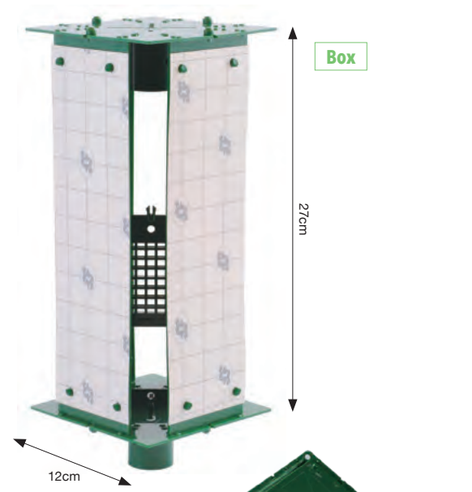
▸ **Habitat:** rice paddies, vegetable fields and orchards.
▸ **Food:** soybean, rice, legume plants,
citrus and some related ornamental plants, green pepper, banana, papaya, mango, guava, pear, apple, persimmon, etc.

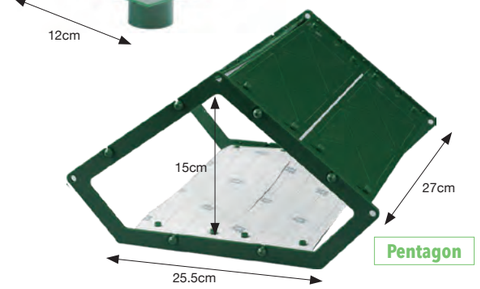
Reusable trap that is designed in three different shapes to suit the habitat of insects

FEATURES

- Targets six species of agricultural insects
- Especially designed traps based on thorough research of ecology of target insects
- By changing the angle of the plastic plate, the diffusivity of attractant can be controlled and be applied to the field
- The device is reusable which supports cost-efficient and environment friendly pest management
- Strong attraction of glue board to endure outdoor environments
- Uses highly water resistant glue board that is unaffected by outer environment, allowing more stable monitoring

Trap types





PRODUCT INFORMATION

Placement

- **Installation:** Select a well-ventilated place and hang it on a tree or stand it on a pole.
- **Interval:** depends on target insect

Shelf life:depends on target insect

Replacement:depends on target insect

*Avoid direct sunlight and store the product at room temperature in a dark place.
*Please note that due to some regulatory issues, FIELDCATCH cannot be sold in overseas. It is currently being sold within Japan only.

Recommended placement

Packaging

It also depends on target insects and type of traps.

Minimum Order Quantity: depends on target insect

FOR AGRICULTURAL INSECTS

NEW WINDSPACK

Target insects

- Japanese beetle
- Soybean beetle
- Cupreous chafer
- Anomala octiescostata
- Oriental beetle
- Green chafer

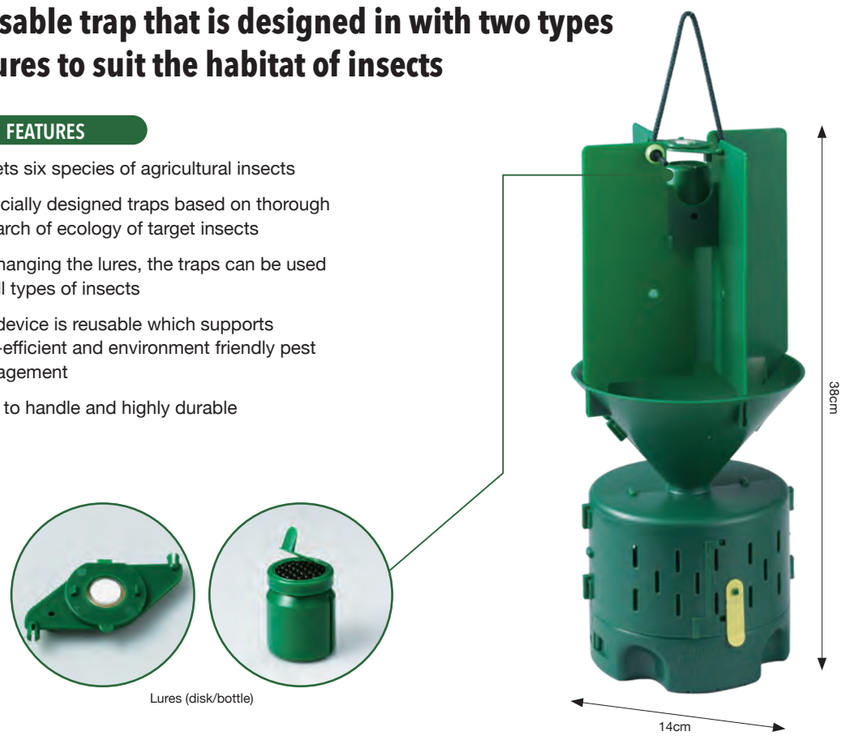
Insects habitat & food

▸ **Habitat:** golf courses, orchards, vegetable fields, gardens
▸ **Food:** grass, weeds, garden shrubs, sweet cherries, roses, flower nectar, soybeans, sweet potatoes, pineapple, taro, grapes, strawberries, peanuts, chestnut trees, other fruit trees, leaves of legume plants, sugarcane, etc.

Reusable trap that is designed in with two types of lures to suit the habitat of insects

FEATURES

- Targets six species of agricultural insects
- Especially designed traps based on thorough research of ecology of target insects
- By changing the lures, the traps can be used for all types of insects
- The device is reusable which supports cost-efficient and environment friendly pest management
- Easy to handle and highly durable

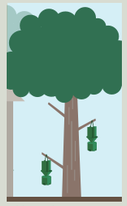


Lures (disk/bottle)

PRODUCT INFORMATION

Placement

- **Installation:**
  - Place the trap at a suitable height for each species
  - Set in a well ventilated location
  - Adjust the height depending on the target species of insects
- **Interval:** an attraction performance range 50 -100 meter can be expected as a general rule



Hang from a tree

Hang from a pole

Packaging

Minimum Order Quantity: depends on target insect

- It also depends on target insects and type of traps.

Shelf life: depends on target insect

Replacement: Dispose of the captured insects before the trap becomes full.
(If captured insects are left in the trap for an extended time, they will decompose and reduce the attraction)

*Avoid direct sunlight and store the product at room temperature in a dark place.
*Please note that due to some regulatory issues, FIELDCATCH cannot be sold in overseas. It is currently being sold within Japan only.

INSTALLATION TIPS OF PHEROMONE TRAPS FOR EFFECTIVE MONITORING

Wall-mounted type trap

There are four types of wall-mounted type of product in lineup of FUJI FLAVOR.


NEW SERRICO

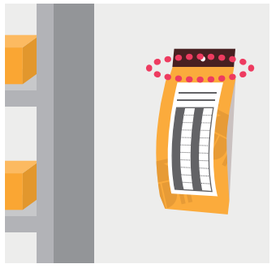
GACHON

SERRICO W+

HIRESIS

Common tips for installation of four types of trap

01 Set the traps reducing the gap between the wall and the trap



When installed in an uneven wall surface, the insects may enter the gap and the catching power may decrease. Please fold the circle part firmly to avoid the gap.

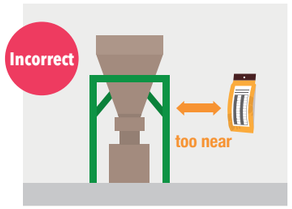
02 Place the trap by securing the space for insects to walk on both sides of traps

When insects get attracted to pheromones, they land to the surrounding areas of attraction and get into the trap by walking. If there is no space, the catching efficiency will decrease.

Not good examples

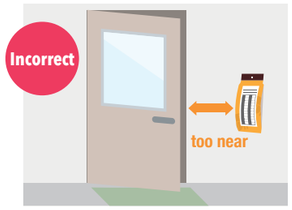
1 Hanging mid-air
2 No space to walk for insects
3 Installed in H shaped, hollow steel

03 Refrain from placing the trap near the manufacturing equipment



There is chance that the insects may get into the raw-materials or finished goods.

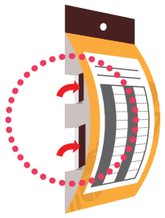
04 Refrain from installation near entrance and exit



Placing the trap near entrance and exit may lead to attraction of insects from outside.

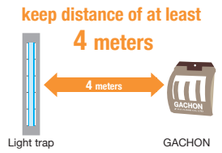
Installation tip of NEW SERRICO

Fold the trap firmly as shown in the picture to avoid the dust entering into it.



Installation tip of GACHON

If you do not keep at least 4 meters distance from light traps, the insect catching power may decrease.

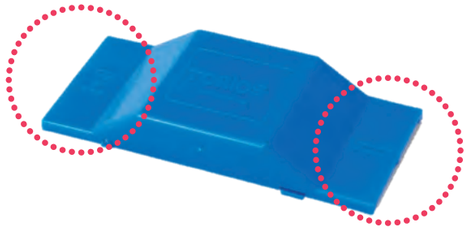


Floor placement type trap

There are two types of product in lineup of FUJI FLAVOR that are to be placed on the floor.

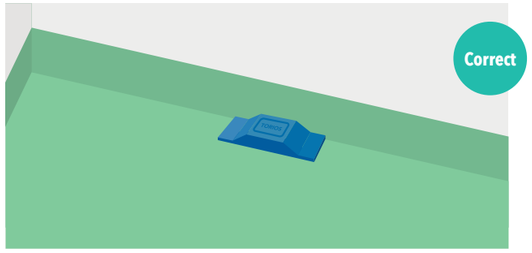
01 It is important not to block the two entrance circle part

If it is blocked, the insects may not be able to get into the trap. As a result, it is difficult to get the accurate data.



02 Place trap near the wall areas

The crawling insects prefer to walk through the wall areas.

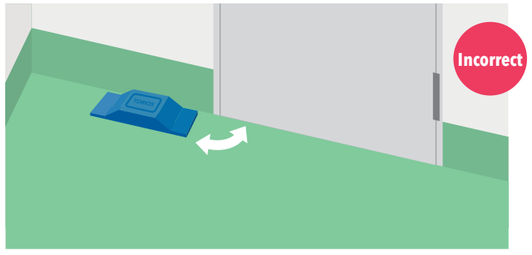


03 Refrain from placing the trap near the manufacturing equipment

There is chance that the insects may enter into the raw-materials or finished goods.

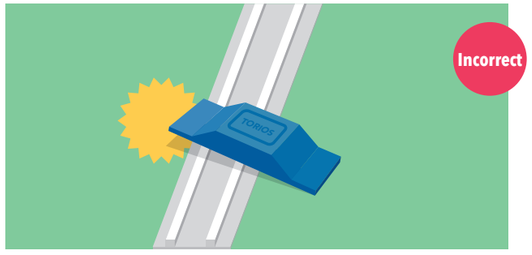
04 Placing the trap near entrance and exit may lead to attraction of insects from outside

The insects may get attracted from outside if placed in these areas.



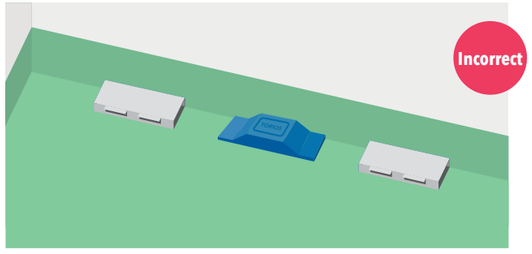
05 Place the trap on a flat surface

If the trap is not placed on a flat surface, the insects may have difficulty in getting into the trap. As a result, the catching power may decrease.



06 Refrain placing traps on both sides

If other types of traps are placed on both sides of TORIOS, other types of insects may be attracted to TORIOS.



FREQUENTLY ASKED QUESTIONS (FAQ)

Where to inquire for placing orders, quotation of product, questions related to products?

Please contact at ecomone-inquiry@jt.com. Generally, all the communication will be through emails. For urgent matters, you may also contact us at +81-42-555-5186 during office hours (8:30-17:00, JST).

What is the MOQ (Minimum Order Quantity) of each product?

Please refer to each product page in catalogue for more details.

What should I do if MSDS (Master Safety Data Sheet) of product is required?

The MSDS can be download easily from our company's official website.

Is there any particular regulations to deal with in order to import FUJI FLAVOR's product?

Depending on importing country, there may be rules and regulations to follow. (For example: issue of import license, regulations procedures to follow). Therefore, please kindly check this information before import.

What if I do not know which pheromone trap to use?

In order to use pheromone trap, it is important to identify the insects that occur at your site. If you are not aware of the type of insects, please contact us. We will then recommend a pheromone trap for you.

Do you have distributors in most countries? Is it possible to purchase from distributor?

Depending on the country, there may be or may not be distributors available. Please kindly contact us in advance.

Which languages are available at FUJI FLAVOR for communication?

We support our customers with the following three languages: English,Chinese and Japanese.

Company Overview

Company Name	FUJI FLAVOR CO., LTD.	Established	May 26, 1971
Address	3-5-8, Midorigaoka, Hamura-shi, Tokyo 205-8503, Japan	Capital	196 million (wholly-owned subsidiary of Japan Tobacco, Inc.)

History

1971	Established for the purpose of R&D and manufacturing of tobacco flavors
1972	Started production and sale of tobacco flavors
1975	Started production and sale of food flavors
1980	Successfully synthesized the tobacco beetle sex pheromone serricornin
1981	Started production and sale of pheromone traps for insect monitoring
1985	Started production and sale of flavor ingredients extracted by supercritical CO2 extraction
1992	Became a wholly-owned subsidiary of Japan Tobacco, Inc.
2001	Obtained ISO 9001 certification
2005	Obtained ISO 14001 certification
2006	Started the rebuilding phase of production and warehouse facilities
2010	Completed work on new production and warehouse facilities
2012	Completed work on new effluent treatment facility and drum cleaning facility
2015	Acquired license for additive production and sales business
2016	Completed construction of first Ecomone building
2017	Obtained "ERUBOSHI" certification