



# A MASS TRAPPING SYSTEM FOR FRUIT FLY MANAGMENT

# The CERA TRAP® Mass Trapping System

The CERA TRAP® mass trapping system is an innovative, highly effective method to assist in the management of fruit fly infestations. There are no insecticides in the formulation therefore making this system ecologically acceptable.

CERA TRAP® is a liquid food based attractant based on a specific protein formula developed exclusively by Bioiberica who are a leading pharmaceutical company based in Spain.

CERA TRAP® produces emissions of volatile compounds, primarily heterocyclic amines (piperazines) and organic acids which have a high attractiveness to adult fruit flies, especially females.



## Sensitive to Beneficial Insects

CERA TRAP® is formulated to be highly attractive to Fruit Flies with very little attractiveness to beneficial insects.



## No Insecticides Required

Unlike other products, no insecticides are required in the formulation as the fly is attracted to the trap by the attractiveness of CeraTrap and on entry it ultimately drowns in the liquid.



## Benefits

### 1. 100% Ecological Solution

There are no insecticides used in the formulation, the formulation is organic.

### 2. No Residues

No hazard to operators and no withholding period.

### 3. Easy and economical to use

The traps are designed for easy installation and CERA TRAP® is formulated for maximum efficiency.

### 4. Sensitive to Beneficial Insects

Specifically formulated to reduce impact to beneficials.



# Application for CERA TRAP<sup>®</sup>

## Trap Density

The number of traps required will depend on the total area to be protected, the larger the area the less number of traps, and the crop sensitivity. The densities recommended obtain effective pest management and limit the requirement for additional insecticide treatments.



Fly Trap  
80 - 100 traps/hectare

## Trap Installation

The traps should be hung on the northern side of the tree at a height of approximately 1.5 metres and within the tree canopy. The traps should be placed evenly throughout the plot except where there are recognised areas of high insect pressure; these areas should be reinforced with additional traps.



Time of  
Installation

To reduce pest numbers it is essential to install the traps at least 45 days prior to fruit ripening.

## Australian Trials Summary

### Queensland Fruit Fly *Bactrocera tryoni*

Trials in Queensland, New South Wales and Victoria clearly demonstrated that CeraTrap effectively attracted this particular species. As demonstrated in other world programmes the number of female flies captured as to male flies was in ratio of approximately 4:1



### Mediterranean Fruit Fly *Ceratitis capitata*

Trial work in Western Australia supported overseas studies which prove that CeraTrap is highly attractive to this species.





# Fast CERA TRAP® Refilling

Refilling of Cera Traps doesn't have to be a complicated and time expensive operation. It can be achieved quickly and easily without manually removing traps from trees.

Simply with a slight modification to a standard spray wand / hand Lance and refilling becomes a breeze. Below is an illustration of the 2 fittings required after the standard nozzle is removed from the wand end.

In this case a 10 mm socket adaptor and 8 mm outside diameter elbow fitting were purchased from an irrigation supplies shop and fitted onto the wand. Whether it's a knapsack being used or an atv mounted spray rig or even a larger spray tractor scenario, Cera Trap refill liquid can flow smoothly through pumps and valves for fast trap refilling.



**How** - The elbow nozzle on the end of the wand is placed inside one of the four 9mm holes in the lid of Cera Trap. Care must be taken not to spill the liquid onto the outside of the trap. Refilling Cera Trap with 600 mls takes only 5 seconds with a standard knapsack.



BIOIBERICA is a Spanish company that specializes in contributing biological solutions to agricultural problems.

Our chief assets are biomolecules extracted using our exclusive enzymatic hydrolysis method. We continue to do research into specific new attractants for the control of the main agricultural pests.

CERA TRAP® is the first in a new range of specific second-generation attractants.

*Manufactured by*

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