PROTEIN HYDROLYSATE

FOOD AND BIOTECHNOLOGY
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What is protein hydrolysate

Flies need sugars and protein rich food to survive and mature. To fulfill this need they depend on various sources such as fungi, bird droppings and pollens etc. Because of their inherit need fruit flies are highly attracted toward high quality protein and sugars. Due to this phenomenon protein hydrolysate spray intended for fruit flies control.

How does protein hydrolysate works

Flies are attracted toward protein hydrolysate over short distance ~10-20 ft. fruit flies attracted toward protein hydrolysate are killed either by sinking in the slurry or by the action of toxicant, included.

Spot spraying technique

Because the bait spray relies on its attractant properties for its mode of action, overall coverage of the tree canopy is unnecessary and a 'spot spraying technique' is adequate. In the spot spraying technique, protein hydrolysate is sprayed on selected canopies within 10-20 ft area or using plywood blocks (50×12 mm) were nailed onto tree trunks at 10-14/ha

Advantages of protein hydrolysate

- Protein bait sprays are less harmful to beneficial insects, making it more suitable.
- Because of the spot spraying technique, there is less insecticide applied to the crop or tree and non-target species have more refuges.
- Costs are considerably lower as less material is used per tree or per hectare.
- Bait sprays are more environmentally sound because of reduced pesticide usage and less risk of spray drift. Spray applications can be directed on to foliage and away from fruit to minimize fruit residue problems.
- Reduced pesticide usage and use of coarse sprays at low pressure result in fewer hazards to the spray operator.