

# Bio-efficacy of Biodon.

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**ABSTRACT:** Insect controller serves as controlling agent to insect, while pesticides are plant protection products. They should be used correctly, they may affect negatively to people's health and environment. Route of administration differs on many factors. The use of insecticides should be done under given instructions and proper supervision.

**Keywords:-** Insect controller, Biodon, agriculture.

## INTRODUCTION-

Biodon is systemic and constant insect controller. An active ingredient is naturally occurring matter. It is used for Biological control of sucking insect like aphids, jassids, thrips, white flies and difficult insects like Mealy bugs and different types of mites and nematodes.

Agriculture involves the cultivation of crops and rearing of animals for the benefits of man.

This ranges from field crops, vegetables, horticulture to animals.

Pesticides are cornerstones upon which the pest management practices are based, and are likely to remain so as long as effective and inexpensive chemicals are available.

The practice of using plant derivatives or botanical pesticides as we know them, in agriculture dates back at least two millennia in ancient Egypt, china, Greece, and India.

Even in Europe and North America the documented use of botanicals extends back more than 150 years.

Biodon is an effective organic insect controller known to control mealy bug, thrips, Aphids, hoppers, and white fly.

Biodon is specially formulated against sucking pest. (1)(3)

How it works?

Biodon is an botanical derived molecule provides long lasting control and broad spectrum of insects in a variety of crops.

Biodon is systemic and contact insect controller with exhibiting excellent translaminar activity.

Site of action?

The active ingredients in botanical extract and naturally occurring matter such as secondary metabolites, natural organic materials which are used for biological control sucking insect like aphids, jassids, thrips, mealy bug, white flies and different types of insects.(2)

Mode of action:

It produces antifeedant, insecticidal and acaricidal effects. Secondary metabolites extracts are neurotoxins. They act by disrupting nerve conduction, which leads to paralysis and death. Their toxicity is negatively correlated with temperature. This may be a function of strength with which they are able to bind to receptor sites on nerve axons, i.e. as the temperature increases so does their dissociation. Their mammalian oral LD<sub>50</sub> is 1600 mg/kg, which makes them very safe to mix and apply. (4)

Trails:

Biodon 2 ml/liter of water with non-ionic spreader.

Results:

Results occur with 4 days of foliar application on crop.



1. Before application of Biodon



2. After application of Biodon

Works on crop:  
Grapes, pomegranate, custard apples and other horticulture crops and vegetables and flowers.

Conclusion:  
95% control over all types of insect pests. Product is eco-friendly and developed by secondary

metabolites of plants which is superior over synthetic products. It has no side effects.

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