

## **ANALYSIS-PACKAGE Blgg laboratories**

# **Diagnoster<sup>®</sup> Virus**

Virus diseases are important. They can cause severe economic damage by both loss in quality and production. This is due to the creation of spots, misshaped leaves or fruits. There is no chemical or biological control against viruses. All focus is on resistant/tolerant varieties and control of the transmission.

### **Virus transmission**

Viruses are transmitted by different means. (Irrigation)water, humans, insects, nematodes, seed are the main transmitters. An important way is transmission by insects:

### **Virus transmission by insects**

The most important insects / vectors for virus transmitting are:

- Thrips
- White Fly
- Aphids

The most common viruses that are transmitted by insects:

- CMV = Cumber mosaic virus (Aphids)
- TSWV = Tomato Spots Wilt Virus (Thrips)
- INSV = Impatiens Necrotic Spot Virus (Thrips)
- PVY = Potato Virus Y (Aphids)
- TYLCV = Tomato Yellow Leaf Curl Virus (White Fly)

### **Security = Laboratory tests**

Laboratory tests are more sensitive than the human eye. Therefore it is important to test possibly infected plants to determine if they are infected. Infected plants can be a host plant for the virus and these can be transmitted further in the crop. Also identification by visual symptoms is difficult because symptoms can vary depending on e.g. variety, temperature, light intensity, crop stage.




The back side of this bulletin shows some pictures of vectors of viruses

#### **Symptoms of viruses can be recognized at:**

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Pictures of vectors linked to the viruses they transmit

<b>Vector</b>		<b>Example</b>
Thrips		<ul style="list-style-type: none"><li>• TSWV</li><li>• INSV</li></ul>
Aphids		<ul style="list-style-type: none"><li>• CMV</li></ul>
White Fly		<ul style="list-style-type: none"><li>• TYLCV</li></ul>