

HVX ImmunoStrip® Test

ImmunoStrip® test for detection of *Hosta virus X*
Catalog no. STX 16600, ISK 16600

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ImmunoStrip®	25 strips	5 strip	25 strips
Sample bag with SEB1 buffer*	not included	5 bags	25 bags
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*The HVX ImmunoStrip® test must be used with **SEB1** buffer.

YOU WILL NEED

- Scissors, a pen, and a knife or razor blade
- **SEB1** sample extraction buffer, available as:
 - Mesh sample bag containing SEB1 buffer (ACC 00936)
 - SEB1 powdered buffer (ACC 00996)
 - Mesh sample bag (ACC 00930)
- Sample bag holder – a small letter holder can be used.

STORAGE

Keep the strips tightly sealed in the container with the desiccant at all times. Store the strip container and sample extract buffer in the refrigerator (4°C) between uses. Allow the strip container and sample extract buffer to warm up to room temperature prior to use.

SAFETY

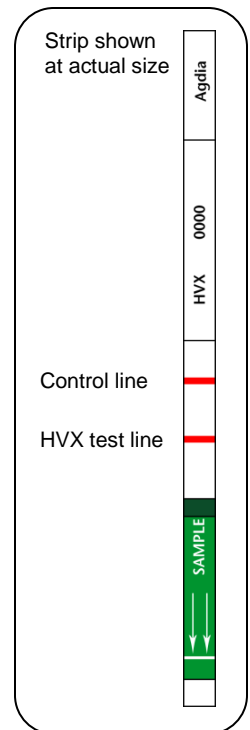
Sample extract buffer and strip tests are non-hazardous

INTENDED USE

The HVX test is a rapid means of screening hosta for the presence of *Hosta virus X*. The HVX test can be used with both leaf and root tissue. The HVX ImmunoStrip® must be used with SEB1 sample extraction buffer. Do not use any other sample extract buffer.

PLANT SAMPLES

Plant samples infected with HVX do not always exhibit symptoms. In some cases it can take up to 3 years for signs of infection to show. Some common signs of infection are leaf mosaic, mild mottling, necrosis around infected area, or distorted leaves that are rough and wrinkled in appearance.



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Sample Preparation

- 1 Samples can be taken from the leaves or roots of a plant. Samples are then ground in buffer at a 1:20 w/v ratio. It is important that you do not use too much sample.

This instruction describes the use of Agdia mesh sample bags, though other means of extracting samples may be preferred. Mesh Sample bags contain 3 ml of SEB1 sample extraction buffer, which would require 0.15 g of leaf or root tissue.

If you cannot weigh the sample, approximate the size of each according to the images at the right. Samples should be similar in size or smaller.

Leaf tissue: The sample size for leaf tissue should be about the same diameter as a quarter.

Root tissue: Use the image to the right for a good approximation of a 0.15 g root tissue sample compared to a quarter.

Note: It is recommended that you use a clean cutting tool for each sample. If you must reuse the cutting tool, first wipe off the cutting edge and disinfect in a 10% bleach solution before cutting into a new sample.

- 2 Cut off the top of the mesh sample bag, being careful not to spill the buffer.

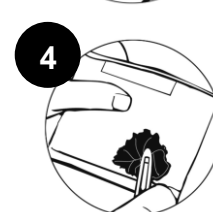
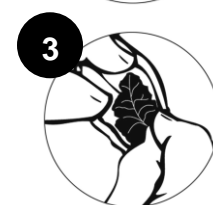
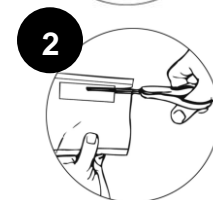
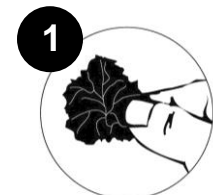
- 3 Place the sample pieces between the mesh linings of the mesh sample bag.

- 4 Rub the bag with a pen or blunt object to completely crush and mix the sample. Use only one sample per bag, and be sure to label each bag.

- 5 Remove the HVX ImmunoStrip® from the container. When handling the strips, always grasp the top of the strip marked with the test name. Do not remove the protective covering.

Insert the end of the ImmunoStrip® marked "sample" into the pouch, as illustrated, and allow the strip to run for 30 minutes.

Note: Do not allow much more than 0.5 cm or ¼ inch of the end of the strip to be submerged in the extract. The end of the strip should remain in the extract during the test.



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Results

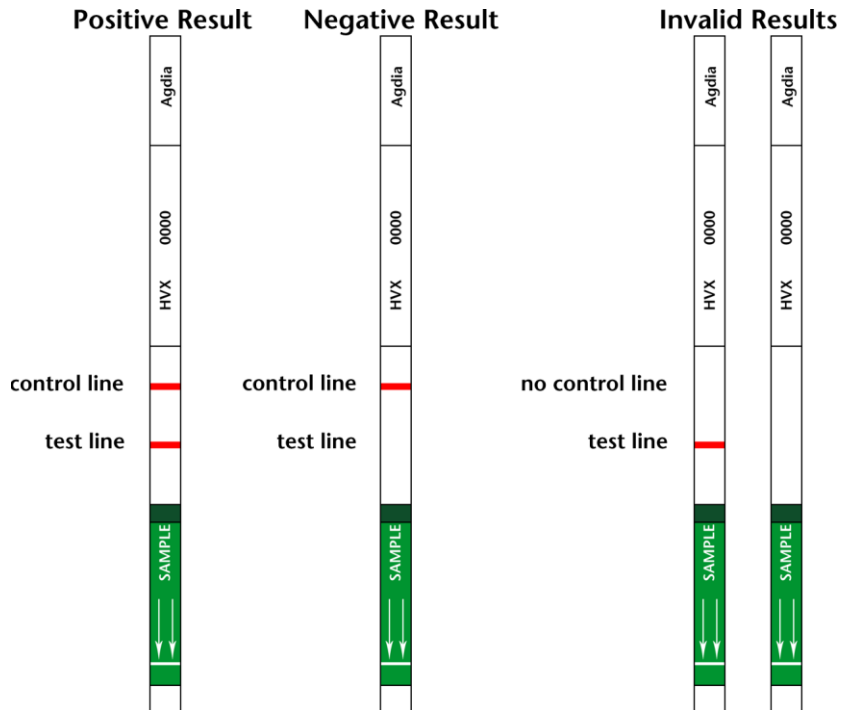
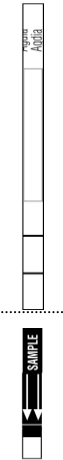
Maximum reaction occurs in 30 minutes, at which time the ImmunoStrip® should be removed from the sample. Use the images to the right as a guide to determine results. If necessary, align the ImmunoStrip® with the images to determine the exact positions of the test line and control line.

The **control line** assures that the test is working properly. If the control line does not appear, the test is invalid.

If the sample is positive (+) for HVX, the **test line** will appear. The test line will be red to purple in color just as the control line. The color intensity of the test line will vary.

If the sample is negative (-) for HVX, the **test line** will not appear. Samples with low viral titer may not be detected with the ImmunoStrip®.

Note: If you wish to keep a strip as permanent record, cut off the sample pad (green end marked "sample") and discard. This prevents any liquid still in the sample pad from interfering with results. Then blot the ImmunoStrips between paper towels.



Limitations

The following is a description of factors that could limit test performance or interfere with proper test results.

Sample Extraction Buffer: The HVX ImmunoStrip® must be used with SEB1 sample extraction buffer. Do not use any other sample extract buffer.

Sample Dilution: Strip performance is very dependent on the proper sample dilution. Strips will not properly absorb sample extracts containing large amounts of tissue.

Submerging the Strip: Test strips must not be submerged more than 0.5 cm or ¼ inch into sample extract. If too much of the strip is submerged, certain components of the strip are released into the sample instead of being wicked upward by the strip. This most often results in a failed test in which no control line forms.

Expiration: Test should be used within one year of purchase.

Storage: Test results may be weak or the test may fail if the storage instructions are not followed properly. **The ImmunoStrip® package must remain sealed with desiccant when not in use to prevent moisture degradation!** Moisture degradation will affect test results.

Results: Some plant tissues may cause what appears to be a green test line. This may be due to the tissue type or to samples containing too much tissue. Samples producing such a result should be diluted further and retested. If the green line persists, contact Agdia directly for further assistance.

Technical Assistance

For technical assistance or questions regarding the use of this test system, please contact Agdia, Inc. Monday-Friday by phone at 1-800-622-4342, 1-574-264-2014 or by email at info@agdia.com.