

Pests

Cyclamen Mite and Broad Mite



Life cycle of Thrip



Adult thrip



Thrip on a Flower



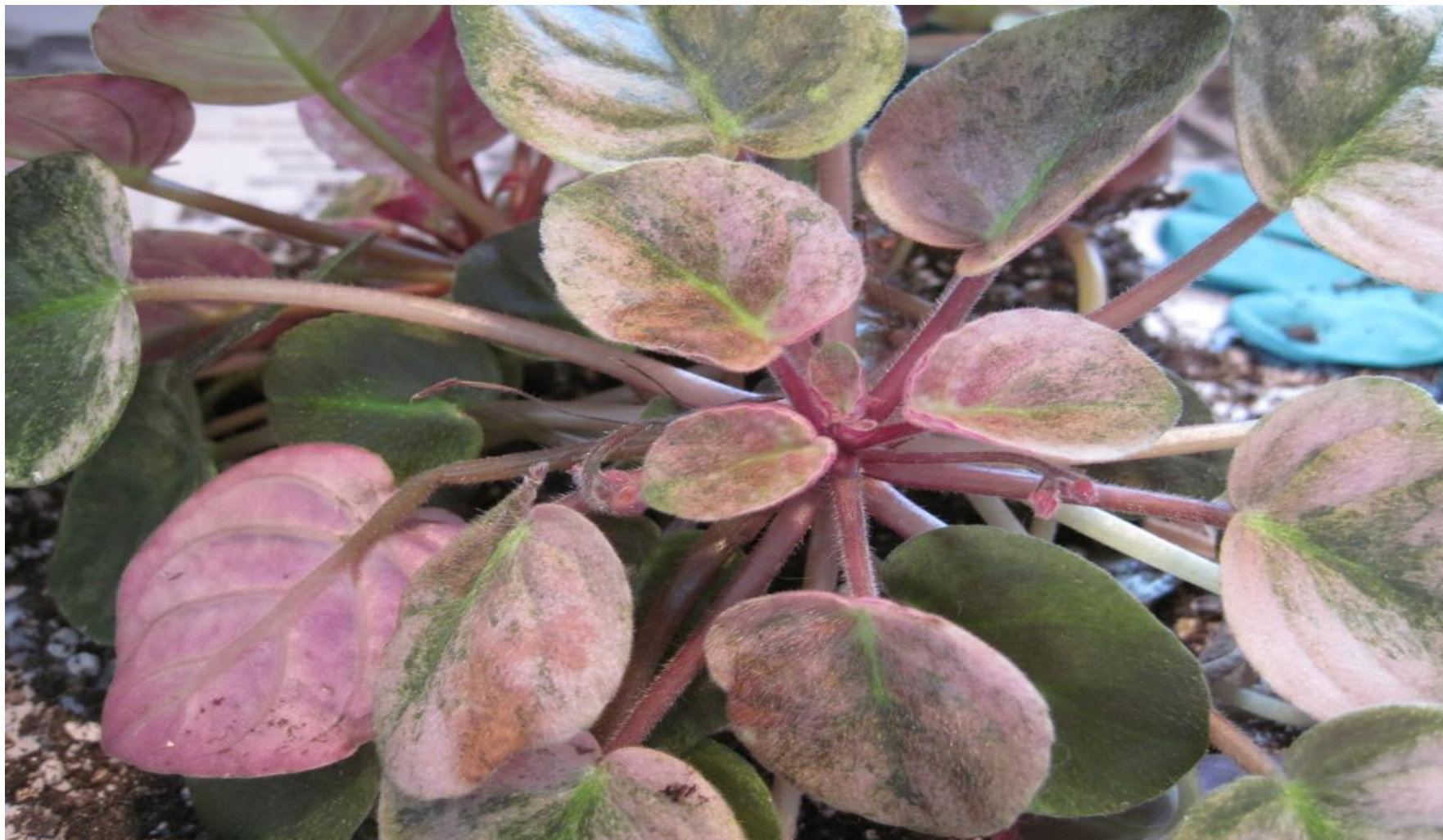
Leaf Damage from Thrip



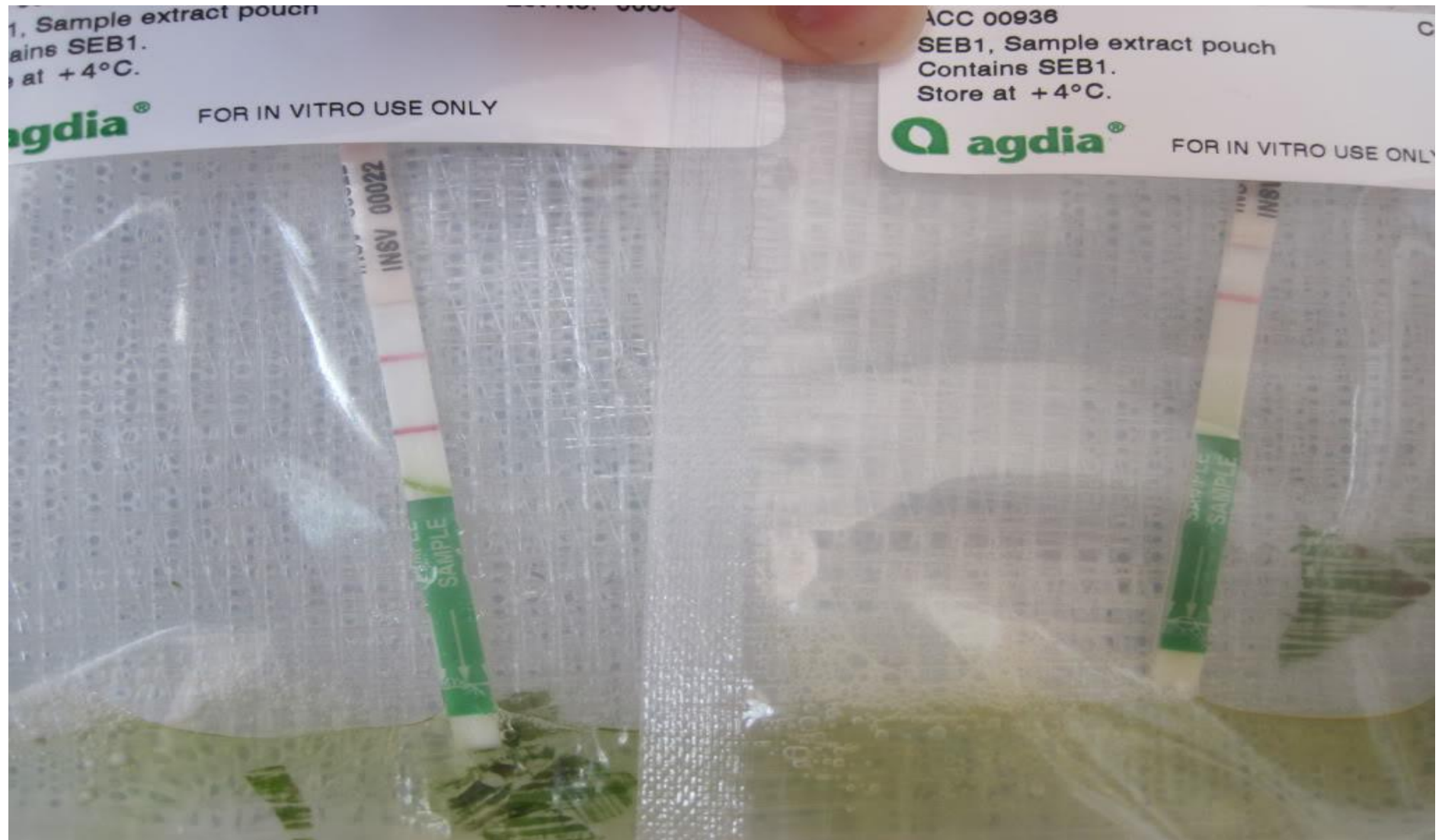
INSV on a



INSV on a Plant



INSV Test Kit



Medium green, plant. Leaf
 ed. glossy, semi-inflated
Flower (10008) 03/21/2012 (1)
 Single light pink, tubular
 and eye, variable colored eye,
 a, long-tapered, corolla, glossy,
Source
Flora (10008) 03/21/2012 (1)
 Hybridized from: medium plant
 pink overtones. Medium green,
 glossy, semi-inflated

STRATION CHANGES

Hybridized from: 'see changed at
 the hybridizer:
 'Al Pater' (10679) Remove 'dark
 blue-green' descriptor.
 'Whiskey' (10705) Remove
 in the description.

HOME RESERVATIONS

Greenhouses - Delgoville, NY
 Hybridizer: 'Perry' 'Geyon' of
 a. Addition: 'Mimi Gains'

East Wind

Exhibited by:
Barbara Reith
 Hybridized by:
S. Sorana/Lyndon Lyon
 Greenhouses
 Standard

**Testing African Violets Using
 ELISA INSV ImmunoStrips®**

By Ronn Nadeau

In mid May of 2013 a novice grower (NG) of African violets (AV) gave me several plants to inspect. She had obtained them from a friend at an AV show. At the time of purchase, the plants were blooming and appeared healthy. Her avicultureist husband let her and he while all was good. However, after a few months, most of her plants were very sick, she noted, "what am I doing wrong?"



A very sad looking specimen of "Kivi Dazzler". The numbers indicate leaves that were removed for ELISA ImmunoStrip INSV testing.

NG's plants, which showed classic cyclamen mite symptoms, were tested using ImmunoStrips purchased from Agria, Inc. The most interesting plants in Photo 1 show the five leaves that were used in two separate ELISA INSV tests. The leaf used in test 1, which was cut from the center of the plant and placed at the top of the plant before testing the plant, is labeled "1". The INSV test of leaf 1 gave a strong positive result.

I could have stopped there and just reported that the plant was indeed with TAV virus. However, because of my curiosity as to why some plants that

show these symptoms test positive while some test negative, I conducted tests on some other leaves of this Kivi Dazzler. During leaf 2 (Photo 2) gave another strong positive INSV result. Would all the leaves of the plant test positive? Not leaves 3 and 4 were clearly negative! And, even more surprising, the remaining leaf 5 was strongly positive!

I discussed these results by phone and e-mail with Agria scientist Dr. Francisco Anon, Senior Plant Pathologist, Vegetable Crops & Seed Health Specialist. To summarize, Dr. Anon said that most viruses cause that virus distribution; in infected plants is usually uneven, and that it is best to sample symptomatic leaf material. However, in these, the "Dazzler" analyses, leaves 1 - 4 all showed symptoms (mottled, bitt, distorted) but only 1 and 4 tested INSV positive. On the other hand, leaf 5, which was INSV positive, did not show "typical" mite symptoms but did show the symptoms of a necrotic ring spot (upper 1/3 edge of leaf), which is a symptom of INSV.

In Photo 2, leaf 1 is shown after being cut away



A specimen of "Star Red velvet" with star-shaped center. The numbered leaves were tested by ELISA INSV.

Soil Mealy Bugs



Foliar Mealybugs



Mealy Bug Magnified



