



Title: Effect of fungicides on Alternaria leaf spot on Impatiens

Host: *Impatiens Wallerana* (common impatiens) 'Super Elfin Violet'

Inoculation: On 21 December, 2004 plants were inoculated by spraying with a spore suspension of a culture of *Alternaria alternata* mixed with sterilized water (about 1×10^4 /ml). The plants were then placed in plastic bags for the duration of the trial.

Treatments:	Rate/100 gal
A. Water - noninoculated	-----
B. Water - inoculated	-----
C. Chipco 26019	16 oz
D. Mimik Improved	64 oz
E. Mimik Active	64 oz
F. Aliette	16 oz
G. Daconil Ultrex	22.4 oz
H. Fungaflor	5 - 6 g per 288 square feet

Chemical application dates: All treatments except the Imazalil TR were applied as a foliar spray (to drip) as listed above on 20 and 27 December 2004 and 3 January 2005. The Imazalil treatment was released in a separate greenhouse. Fans were run for 10 minutes after release to distribute the product uniformly. The plants were returned to the experiment after treatment.

Treatment	Rate/100 gal	Top Grade 1/5/05	No. Spots/Plant 1/5/05	Residue Severity 1/5/05
Noninoculated control	-----	2.9 a	0.0 a	1.0 a
Inoculated control	-----	2.7 a	3.1 ab	1.0 a
Chipco 26019	16 oz	2.8 a	0.0 a	2.1 b
Mimik Improved	64 oz	2.6 a	5.5 ab	1.0 a
Mimik Active	64 oz	2.8 a	3.2 ab	1.0 a
Aliette	16 oz	2.6 a	10.7 c	1.0 a
Daconil Ultrex	22.4 oz	2.9 a	0.0 a	2.1 b
Fungaflor	5-6 g/288 fte2	2.5 a	1.0 a	1.0 a

Top grade was recorded for using the following scale: 1 - plant dead, unsalable, 2 - poor, unsalable, 3 - moderate, salable, 4 - good, salable to 5 - excellent, salable.

Residue severity was recorded using the following scale: 1 - none, 2 - slight, 3 - moderate, 4 – severe, unsalable to 5 - extreme, unsalable.