

FLUTIANIL

Fungicide
Product name: GATTEN[®]



OAT Agrico Co., Ltd.

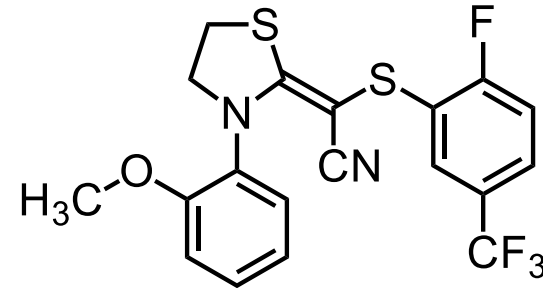
— Tokyo, Japan —

2021 IR-4 meeting



Flutianil, Characteristics

- New chemical group: cyano-methylene thiazolidine
- Effective in controlling powdery mildew
- **Novel Mode of Action against powdery mildew (FRAC Code U13)**



We'd like to propose a MOA of flutianil as “functional inhibition of the haustorium”*

No Cross-Resistance with other chemical classes

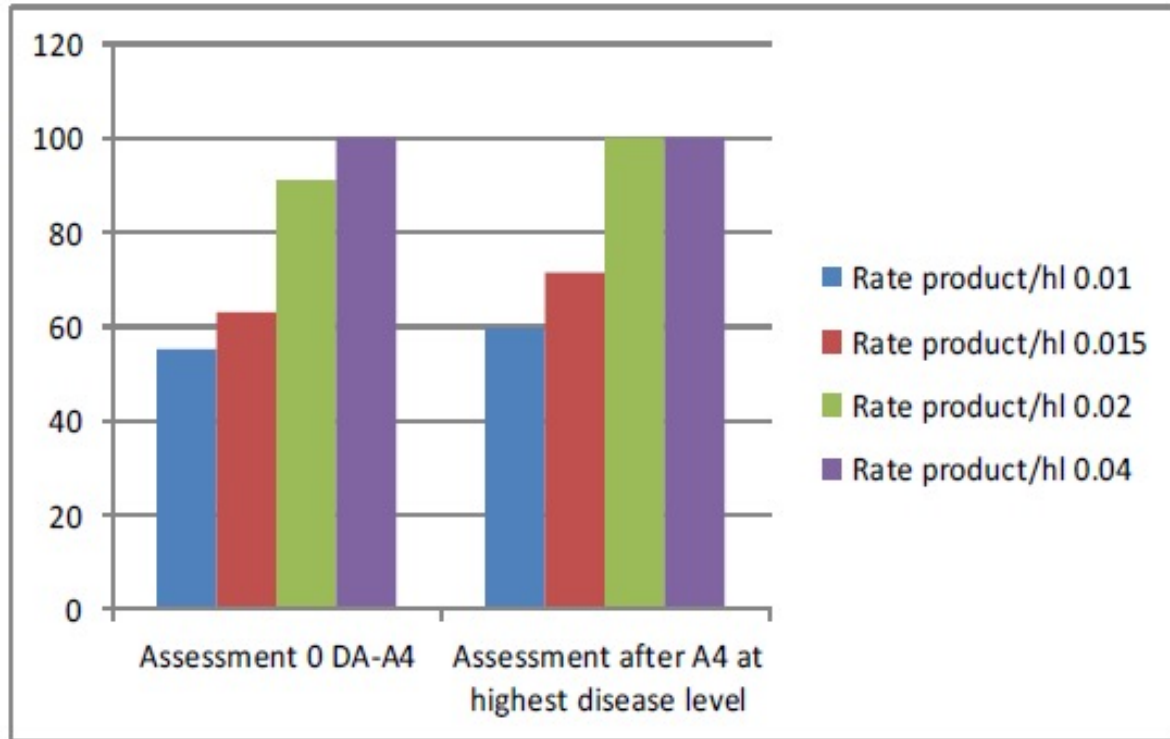
*Reference: J Pestic Sci 45(4), 206-2015 (2020)
J Pestic Sci 26(2), 206-2013 (2021)

Performance on Greenhouse Zinnias For Powdery Mildew Control– US (IR-4)

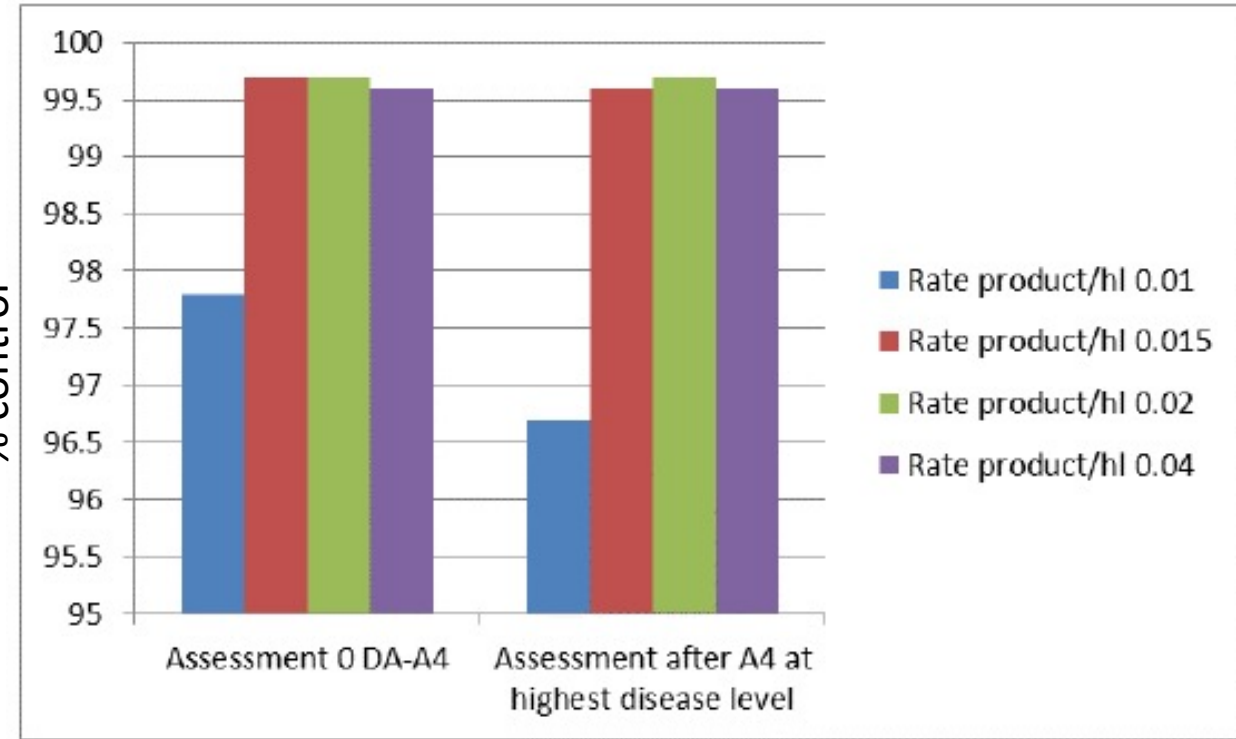
Treatment (Rate)	Mean Disease Severity (0 to 10 Scale)
Nontreated Water Spray	2.0 BC
Gatten® (12.8 fl oz / 100 gallons)	0.1 A
Gatten® (25.4 fl oz / 100 gallons)	0.0 A
MBI-121 (96 fl oz / 100 gallons)	1.9 BC
MBI-121 (128 fl oz / 100 gallons)	1.3 AB
EcoSwing (32 fl oz / 100 gallons)	2.3 BCD
SP2700 (11 oz / 100 gallons)	1.3 AB
SP2700 (22 oz / 100 gallons)	1.3 AB
TDA-NC-1 (570 g / 100 gallons; 3 Apps)	3.4 D
TDA-NC-1 (570 g / 100 gallons; 6 Apps)	3.0 CD
TXC2020 64 fl oz 3 Apps	1.6 B
TXC2020 64 fl oz 4 Apps	2.2 BCD
XDE-659 (20.6 fl oz / 100 gallons)	2.3 BCD
XDE-659 (34.3 fl oz / 100 gallons)	1.3 AB
Note: Means sharing a letter are not significantly different at the 5% level.	



Performance in Greenhouse For Control of Powdery Mildew – EU and UK



Podosphaera major on Horned violet
4th application, 2 trial, Greece, Protected

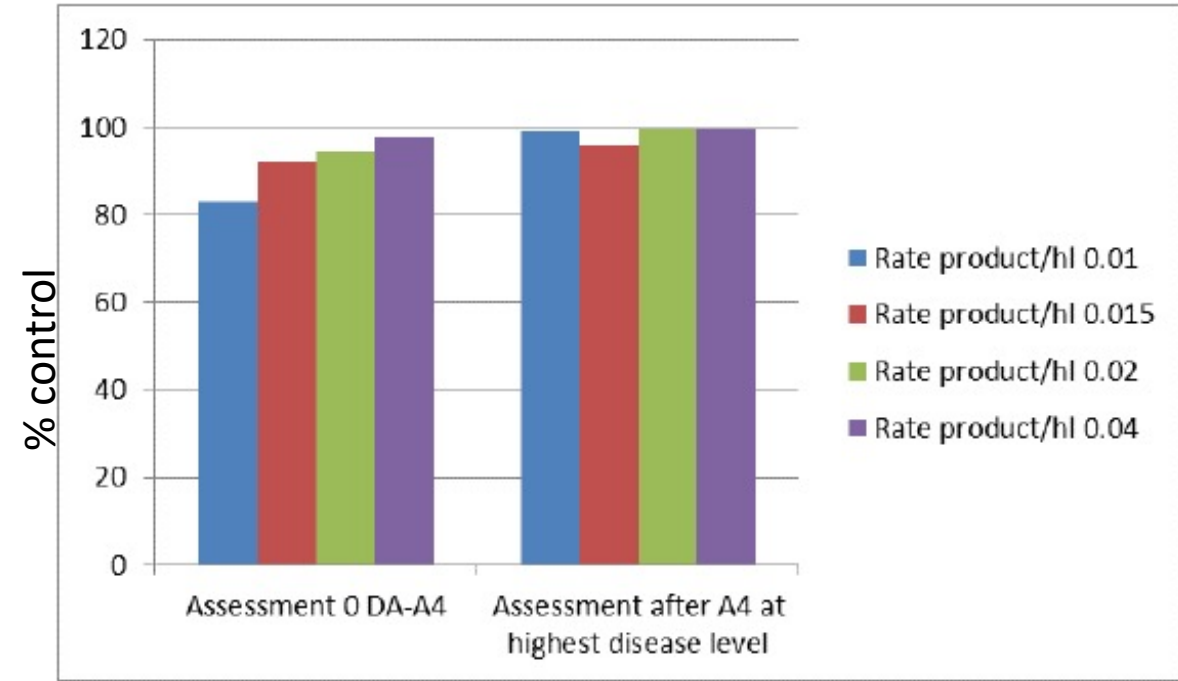


Podspphaera macularis on Garden pansy
4th application, 1 trial, UK, Protected

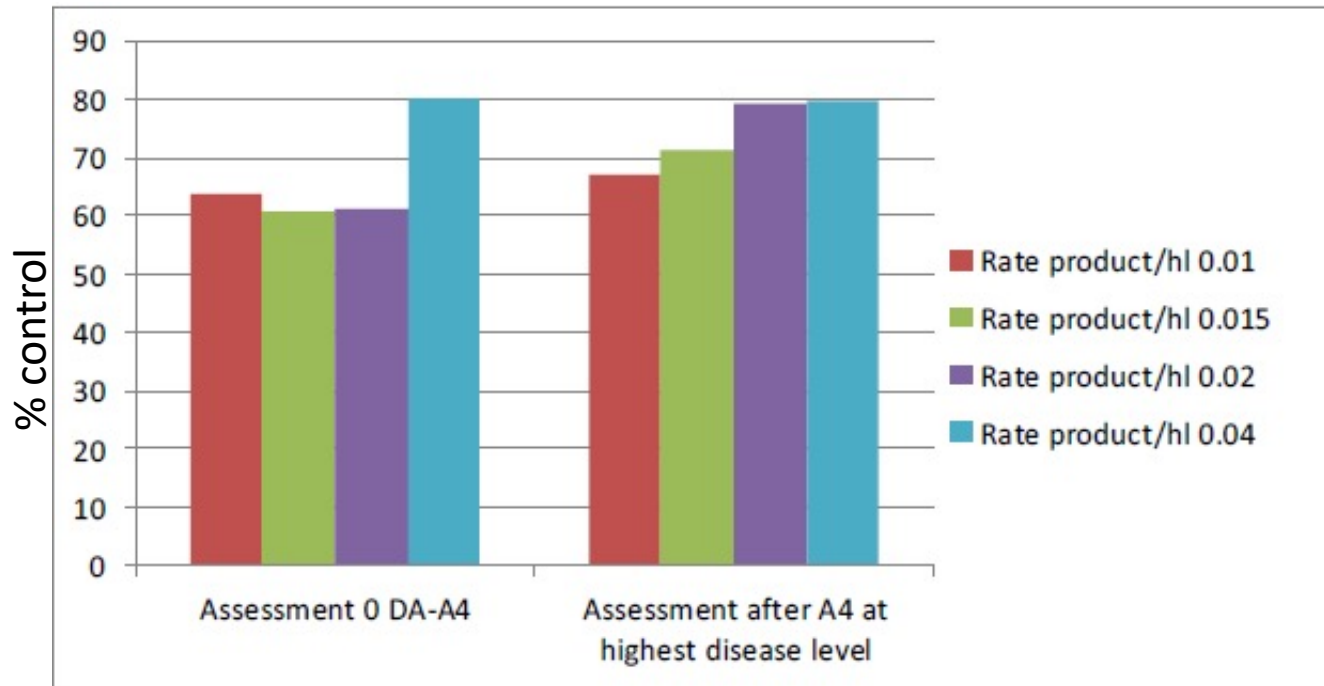
0.01 L/hl (100 L)= 1.27 fl oz/100 gallon
0.015 = 1.92
0.02 = 2.56
0.04 = 5.12



Performance in Greenhouse For Control of Powdery Mildew – EU and UK



Erysiphe sp. on African daisy
4th application, 2 trial, UK, Protected

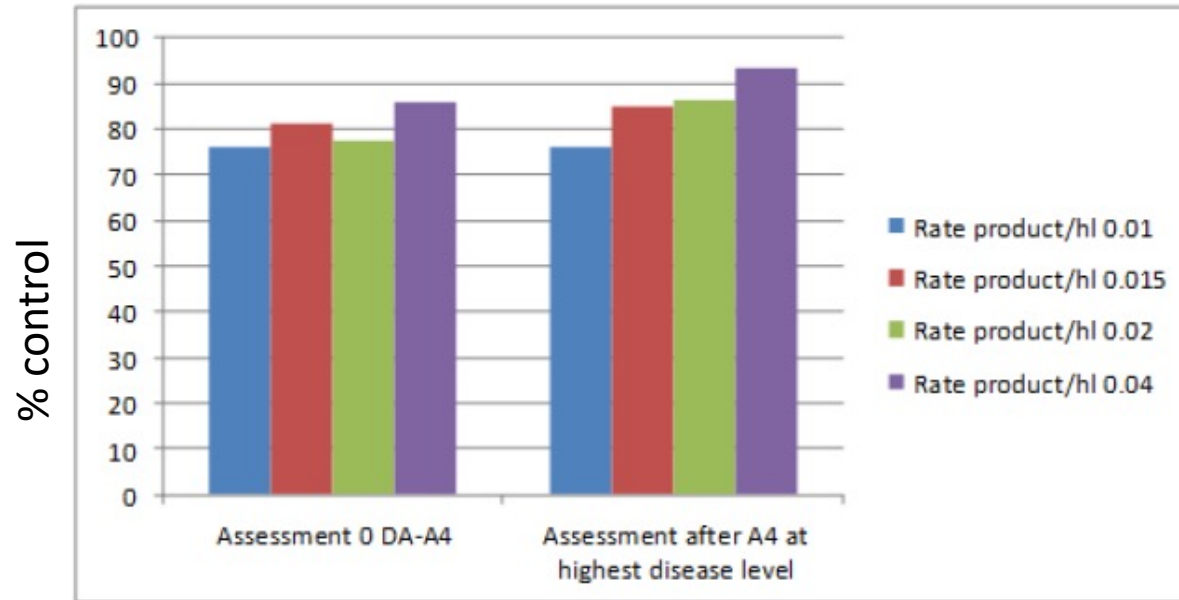


Podosphaera pannosa/ Uncinula sp./ Odium sp. on Rose
4th application, 4 trial, Spain and Italy, Protected

0.01 L/hl (100 L)= 1.27 fl oz/100 gallon
 0.015 = 1.92
 0.02 = 2.56
 0.04 = 5.12



Performance in Greenhouse For Control of Powdery Mildew – EU and UK



0.01 L/hl (100 L)= 1.27 fl oz/100 gallon
0.015 = 1.92
0.02 = 2.56
0.04 = 5.12

Erysiphe sp. on Japanese honey suckle
4th application, 3 trial, Germany and UK, Protected

Summary

Efficacy of the dose rate of 0.02 L product/hL (2.56 fl oz/100 gallon) was significantly superior.

