

Actigard 50WG (Acibenzolar) Crop Safety

Final

Ornamental Protocol Number: 09-014

Objective: Determine phytotoxicity of Actigard 50WG (acibenzolar) on various ornamental plants.

Experimental Design:

Plot Size: Must be adequate to reflect actual use conditions.

Replicates: Minimum of 6 plants of a single cultivar divided into 2 blocks.

Application Instructions: Depending upon research site and plant materials, various experiments can be established. Five (5) foliar applications should be made 7 days apart.

Plant Materials: *Where possible, please use 2 separate cultivars for each plant species.*

Evaluations: Record plant height & width at initial and final evaluations only. At 7 days after each application, record phytotoxicity on a scale of 0 to 10 (0 = No phytotoxicity; 10 = Complete kill). If appropriate, also include ratings for chlorosis, defoliation, stunting or other growth effects on a scale of 0 to 10 (0 = No effect; 10 = Complete plant affected). If any phytotoxicity is observed in treated plants, take pictures comparing treated and untreated plant material.

Recordkeeping: Keep detailed records of weather conditions including temperature and precipitation, soil-type or soil-less media, application equipment, irrigation, liner size, plant height & width, and plant growth stage at application and data collection dates.

Treatments:

Product	Rate	Special Instructions	Contact Information to obtain materials
Actigard 50WG (acibenzolar)	0.5 oz per 100 gal	Make 5 foliar applications at 7 day intervals.	Syngenta, Nancy Rechcigl, 941-238-7413, nancy.rehcigl@syngenta.com
	1.0 oz per 100 gal		
	2.0 oz per 100 gal		
Untreated	--	--	

Reports:

Reports submitted electronically on the standard IR-4 Ornamental Horticulture Research Report Form are preferred.

A report submitted electronically is preferred but not required. If the report is provided electronically, the basic report can be sent in MS Word or WordPerfect, the recordkeeping information as pdf or other electronic documents, and the raw data in MS Excel or other suitable program such as ARM.

Please direct questions to: Cristi Palmer, IR-4 HQ, Rutgers University, 681 US Hwy 1 S, North Brunswick, NJ 08902-3390, Phone 732-932-9575 x4629, palmer@aesop.rutgers.edu **OR** Ely Vea, 308 Aston Forest Lane, Crownsville, MD 21032, Phone & FAX#: 410-923-4880, E-mail: evvea@comcast.net.

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Revised By: CLP