

Fungicides for Management of Landscape Woody Ornamental Diseases

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This guide is a decision-making tool to help growers select fungicides from different chemical classes (FRAC).¹
Additional information can be found in a number of UK Cooperative Extension Service publications or by contacting county Extension agents.

FRAC Code Fungicide	Fungicide	Chemical	Leaf Spots & Blights, Anthracnose,		Needle	Powdery		Stem/Root rots by Water	Stem/Root		Downy
Group 1			Petal Blights	Fire Blight	Diseases	Mildew	Rust	Molds	Rots	Scab	Mildew
•			Fungal	Bacterial	Fungal	Fungal	Fungal	Oomycetes	Fungal	Fungal	Oomycetes
1											
MBC	Broad specti	Broad spectrum fungicide for various fungi.									
Benzimidazoles											
	Cleary's 3336	thiophanate- methyl	х			x	х		х	х	
	Allban	thiophanate- methyl	х			x	x		x	х	
	Banrot*	etridiazole + thiophanate- methyl						х	х		
	Zyban*	thiophanate- methyl + mancozeb	х			х	х		х	х	х
2 Dicarboximides	Broad spectrum fungicide for greenhouse and nursery use.										
	Chipco 26019**	iprodione	х						х		
3 DMI or SI Triazoles	Effective on powdery mildew. Not effective on downy mildew.										
	Banner	propiconazale	x		Х	Х	Х			х	
	Bayleton	triadimefon	Х			Х	Х				
	Eagle	myclobutanil	Х	_	_	Х	Х		_	Х	

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3 DMI or SI Triazoles (cont'd)	Effective on powdery mildew. Not effective on downy mildew.										
	Funginex	triflorine	Х			Х					
	Strike**	triadimefon	х			Х	Х				
	Effective against diseases caused by oomycetes (water molds), including damping-off, root and stem rots, and foliar diseases. Use as soil drench or foliar application.										es. Use as
	Subdue**	mefenoxam						х			Х
7 Carboxamides	Effective on mildews, foliar pathogens, and most fungi.										
	Pageant*	pyraclostrobin + boscalid	х			х	х		x	х	
11 Qol Strobilurins	Effective on mildews, foliar nathogens, and most fungi. Fungicide resistance risk high. Some control of comvicetes										
	Heritage	azoxystrobin	Х		Х	Х	х	Х	Х	х	х
	Pageant**	pyraclostrobin + boscalid	х			х	х	х	х	х	х
	Compass**	trifloxystrobin	х			Х	Х	х	Х	Х	Х
12 Phenyl Pyrroles	Broad spectrum fungicide, not effective against oomycetes (water molds).										
	Medallion	fludioxonil	x						Х		
14 Aromatic Hydrocarbons	Effective against water molds (oomycetes).										
	Terrazole	etridiazole						х			
	Truban	etridiazole						Х			
	Terraclor	PCNB							Х		
	Terraguard**	triflumizole	Х			Х	Х		Х	Х	
	Banrot*	etridiazole + thiophanate- methyl						х	x		
17 Hydroxyanilides	Protection f	rom <i>Botrytis</i>	spp. in outdo	or and gree	nhouse nur	sery crops.					
	Decree**	fenahexamid	Х					Х			х

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21 Ubiquinone Qil	Effective against water molds (oomycetes).										
	Segway	cyazofamid						x			х
28 Carbamates	Control of oomycetes (water molds). Not for use in landscapes.										
	Banol**	propamocarb						х			х
33 Phosphonates	Effective as a protectant treatment of water molds (oomycetes) such as <i>Phytophthora, Pythium,</i> and downy mildew pathogens.										
	Alude	phosphorus acid		Р				x		Х	
	Aliette	fosetyl-AL		Р				x			х
	Vital	phosphorus acid		Р				x			Х
M Multi-site Inhibitors	Effective as protectants on broad spectrum including most fungi and mildews. No systemic activity. Fungicide resistance risk low.										
	Kocide	copper	х	Х	Х					Х	х
	Champion	copper	x	Х	Х					Х	х
	Captan	captan	Х				х		Х		
	Daconil	chlorothalonil	Х		Х	Х					
	Manicure	chlorothalonil	Х		Х	х					
	Dithane	mancozeb	Х		Х				Х		х
	Ziram	ziram	x								

Notes

Fungicides marked with "x" are labeled for use.

This table reports information on fungicide labels and does not necessarily reflect product efficacy.

Refer to fungicide labels for rates and usage.

P = preventative only

Check fungicide labels for specific host information, possible phytotoxicity, rates, re-entry intervals, and resistance management information. Always follow label instructions.

FRAC codes group fungicides by their mode of action and resistance risk.
Fungicides groups should be rotated in order to prolong the effectiveness of fungicides.

^{*} Chemical contains more than one active ingredient, thus more than one FRAC code is assigned.

^{**} Not for use in residential landscapes; commercial use only. See label.