

RESISTANCE TERMINOLOGY AND CODES

Definitions of the terms describing the reaction of plants to pests¹

In the information provided by the Seller, the following meaning is given to the terms below:

- 'Susceptibility': the inability of a plant variety to restrict the growth and/or development of a specified pest.
- 'Resistance': the ability of a plant variety to restrict the growth and/or development of a specified
 pest and/or the damage it causes when compared to susceptible plant varieties under similar
 environmental conditions and pest pressure.
 - Resistant varieties may exhibit some disease symptoms or damage under heavy pest pressure. Two levels of resistance are defined:
 - i. High resistance (HR): plant varieties that highly restrict the growth and/or development of the specified pest and/or the damage it causes under normal pest pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest pressure.
 - ii. Intermediate resistance (IR): plant varieties that restrict the growth and/or development of the specified pest and/or the damage it causes, but may exhibit a greater range of symptoms or damage compared to high resistant varieties. Intermediate resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest pressure.

Varieties claiming the same level of resistance against a specific pest may exhibit a different resistance response due to a different genetic background of a variety.

It is to be noted that if a resistance is claimed in a plant variety it is limited to the specified biotypes, pathotypes, races or strains of the pest.

If no biotypes, pathotypes, races or strains are specified in the resistance claim for a variety, it is because no generally accepted or relevant classification of the biotypes, pathotypes, races or strains of the cited pest exists. New biotypes, pathotypes, races or strains that may emerge are not covered by the original resistance claim.

- 'Immunity': a plant variety is not subject to attack or infection by a specified pest.
- ¹ FAO defines a pest as: any species, strain or biotype of plant, animal or pathogenic agent injurious to plants or plant products.
 - Pathogens (microorganisms such as bacteria, viruses and fungi that cause a disease) are, therefore, included in the term 'pest'.

Resistance codes

Resistances in our varieties are coded with a crop-specific resistance code (see the coding list on this page for the explanations), unless indicated otherwise. In situations where a variety is resistant to more than one pest, the individual resistance codes are separated by a semicolon (;).

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		Code	Scientific name	English common name
		Pa		Rust
Asparagus	From all	-	Puccinia asparagi	
	Fungi	Bc	Botrytis cinerea	Botrytis blight
		Sv	Stemphylium vesicarium	Purple spot
Brassicas	Bacteria Fungi	Xcc	Xanthomonas campestris pv. campestris	Black rot
		Ac	Albugo candida	White rust
		Foc	Fusarium oxysporum f. sp. conglutinans	Fusarium yellows
		Hb	Hyaloperonospora brassicae	Downy mildew
		Pyb	Pyrenopeziza brassicae	Light leaf spot
		Mb	Mycosphaerella brassicicola	Ring spot
		Ss	Sclerotinia sclerotiorum	White mold
		Pb	Plasmodiophora brassicae	Clubroot
		Vd	Verticillium dahliae	Verticillium wilt
		VI	Verticillium longisporum	Verticillium wilt
	Insect	Tt	Thrips tabaci	Thrips
Carrot		Ad	Alternaria dauci	Alternaria leaf blight
		Ar	Alternaria radicina	Black rot
		Сс	Cercospora carotae	Cercospora leaf blight
		Eh	Erysiphe heraclei	Powdery mildew
	Fungi	Ма	Mycocentrospora acerina	Liquorice rot
		Ps	Pythium sulcatum	Cavity spot
		Pv	Pythium violae	Cavity spot
		Rc	Rhexocercosporidium carotae	Black spot
	Virus	CtRLV	Carrot red leaf virus	Carrot red leaf
		CMoV	Carrot mottle virus	Carrot mottle
		Foa	Fusarium oxysporum f. sp. apii	Fusarium yellows and wilt
Celery, Celeriac	Fungi	Sa	Septoria apiicola	Late blight
	Virus	CeMV	Celery mosaic virus	Celery mosaic
Chicory (Radicchio Rosso / Green Hearted Chicory / Endive	Virus	TSWV	Tomato spotted wilt virus	Tomato spotted wilt
	viius	13000	Tomato spotted wiit virus	. sato opottod wiit
Climbing Bean	Virus	BCMNV	Bean common mosaic necrosis virus	Bean common mosaic necrosis
		SBMV	Southern bean mosaic virus	Southern bean mosaic
		BCMV	Bean common mosaic virus	Bean common mosaic
	Fungi	Ep	Erysiphe polygoni	Powdery mildew
Courgette (Zucchini)	Viruses	CMV	Cucumber mosaic virus	Cucumber mosaic
		PRSV	Papaya ringspot virus	Papaya ringspot
		WMV	Watermelon mosaic virus	Watermelon mosaic
		ZYMV	Zucchini yellow mosaic virus	Zucchini yellows
Cucumber, Gherkin	Bacteria	Psl	Pseudomonas syringae pv. lachrymans	Angular leaf spot
	Viruses	CABYV	Cucurbit aphid borne yellows virus	Cucurbit aphid borne yellows
		CMV	Cucumber mosaic virus	Cucumber mosaic
		CVYV	Cucumber vein yellowing virus	Cucumber vein yellowing
		CYSDV	Cucurbit yellow stunting disorder virus	Cucurbit yellow stunting disorder
		PRSV	Papaya ringspot virus	Papaya ringspot
		ZYMV	Zucchini yellow mosaic virus	Zucchini yellows
		WMV	Watermelon mosaic virus	Watermelon mosaic
	Fungi	Ccu	Cladosporium cucumerinum	Scab and gummosis
		Cca	Corynespora cassiicola	Corynespora blight and target spot
		Gc	Golovinomyces cichorarearum	Powdery mildew
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		Pcu	Pseudoperonospora cubensis	Downy mildew
		Px	Podosphaera xanthii	Powdery mildew

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	1	Code	Scientific name	English common name
Leek, (Bunching) Onion, Shallot		Ap	Alternaria porri	Purple blotch
		Foc	Fusarium oxysporum f. sp. cepae	Basal rot
	Fungi	Pd	Peronospora destructor	Downy mildew
		Pp	Phytophthora porri	White tip of leek
		Pa	Puccinia allii	Rust
		Pt	Pyrenochaeta terrestris	Pink root
	Insects	Tt	Thrips tabaci	Thrips
Lettuce	Fungi	BI	Bremia lactucae	Downy mildew
		Fol	Fusarium oxysporum f. sp. lactucae	Fusarium wilt
	Viruooo	LMV	Lettuce mosaic virus	Lettuce mosaic
	Viruses	TBSV	Tomato bushy stunt virus	Lettuce die-back
	Insect	Nr	Nasonovia ribisnigri	Lettuce leaf aphid
Melon	Fungus	Fom	Fusarium oxysporum f. sp. melonis	Fusarium wilt
(Rooted) Parsley	Fungus	Pc	Plasmopara crustosa	Downy mildew
	Bacteria	Xcv	Xanthomonas campestris pv. vesicatoria	Bacterial spot
	Fungus	Pc	Phytophthora capsici	Phytophthora blight
		CMV	Cucumber mosaic virus	Cucumber mosaic
		PVY	Potato Y virus	Potato Y
		BPMoV*	Bell pepper mottle virus	Bell pepper mottle
Hot and Sweet Banner		PaMMV*	Paprika mild mottle virus	Paprika mild mottle
Hot and Sweet Pepper	Viruses	PMMoV *	Pepper mild mottle virus	Pepper mild mottle
		TMGMV*	Tobacco mild green mosaic virus	Tobacco mild green mosaic
		TMV*	Tobacco mosaic virus	Tobacco mosaic
		ToMV*	Tomato mosaic virus	Tomato mosaic
	Virus group code	Tm	Tobamo = viruses marked with *	variety is resistant to specified Tm codes
		Ac	Albugo candida	White rust/blister
Radish	Fungi	For	Fusarium oxysporum f. sp. raphani	Yellows
		Hb	Hyaloperonospora brassicae	Downy mildew
Red Beet	Virus	BNYVV	Beet necrotic yellow vein virus	Rhizomania
	Virus	CMV	Cucumber mosaic virus	Cucumber mosaic
Spinach		Cv	Cladosporium variabile	Leaf spot
	Fungi	Pfs	Peronospora farinosa f. sp. spinaciae	Downy mildew
	Viruses	Pst	Pseudomonas syringae pv. tomato	Bacterial speck
		TLCV	Tomato leaf curl virus	Tomato leaf curl
		TMV	Tobacco mosaic virus	Tobacco mosaic
		ToMV	Tomato mosaic virus	Tomato mosaic
		TSWV	Tomato spotted wilt virus	Tomato spotted wilt
		TYLCV	Tomato yellow leaf curl virus	Tomato yellow leaf curl
		Pf (ex Ff)	Passalora fulva (ex Fulvia fulva)	Leaf mold
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		Fol	Fusarium oxysporum f. sp. lycopersici	Fusarium wilt
Tomato			Fusarium oxysporum f. sp. lycopersici Fusarium oxysporum f. sp. radicis- lycopersici	Fusarium wilt Crown and root rot
Tomato	Fungi	Fol	Fusarium oxysporum f. sp. radicis-	
Tomato	Fungi	Fol For	Fusarium oxysporum f. sp. radicis- lycopersici	Crown and root rot
Tomato	Fungi	Fol For Pi	Fusarium oxysporum f. sp. radicis- lycopersici Phytophthora infestans	Crown and root rot Late blight
Tomato	Fungi	Fol For Pi Ss	Fusarium oxysporum f. sp. radicis- lycopersici Phytophthora infestans Stemphylium solani Verticillium albo-atrum and/or Verticillium	Crown and root rot Late blight Gray leaf spot
Tomato	Fungi	Fol For Pi Ss Va	Fusarium oxysporum f. sp. radicis- lycopersici Phytophthora infestans Stemphylium solani Verticillium albo-atrum and/or Verticillium dahlia Meloidogyne arenaria	Crown and root rot Late blight Gray leaf spot Verticillium wilt
Tomato		Fol For Pi Ss Va	Fusarium oxysporum f. sp. radicis- lycopersici Phytophthora infestans Stemphylium solani Verticillium albo-atrum and/or Verticillium dahlia	Crown and root rot Late blight Gray leaf spot Verticillium wilt Root-knot nematode

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