

Differential Sets

Fusarium oxysporum f. sp. *melonis* (Fom) – Melon

There are four races of *Fusarium oxysporum* f.sp. *melonis* known to exist. Two resistance genes have been described in melon for resistance to races 0, 1 and 2 of *Fusarium oxysporum* f.sp. *melonis*. Resistance to race 1.2 is polygenic. Race 1.2 strains have been divided in two types depending on the symptom they cause: wilting or yellowing (race 1.2y).

Variety	Gene present	Race (ISF code)			
		0 (Fom: 0)	1 (Fom: 1)	2 (Fom: 2)	1.2 (Fom: 1.2)
Charantais T	-	S	S	S	S
Védrantais, Doublon	<i>Fom-1</i>	R	S	R	S
Charantais Fom-2, CM17187	<i>Fom-2</i>	R	R	S	S
Isabelle		R	R	R	IR

S = susceptible; R = resistant; IR = Intermediate

References

- Risser, G., Banihashemi, Z., and Davis, D.W. 1976. A proposed nomenclature of *Fusarium oxysporum* f.sp. *melonis* races and resistance genes in *Cucumis melo*. *Phytopathology* 66: 1105 -1106.
- Perchepped, L., and Pitrat, M. 2004. Polygenic inheritance of partial resistance to *Fusarium oxysporum* f.sp. *melonis* race 1.2 in melon. *Phytopathology* 94 (12): 1331- 336.

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