

### 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 (race 1.2w) or yellowing (race 1.2y).

Differential host	Gene present	Fom: 0*	Fom: 1*	Fom: 2*	Fom: 1.2*
Charantais T*	-	S	S	S	S
Védrantais*, Doublon*	<i>Fom-1</i>	HR	S	HR	S
Charantais Fom-2*, CM17187*	<i>Fom-2</i>	HR	HR	S	S
Isabelle*	<i>Polygenic?</i>	HR	HR	HR	IR

S = susceptible; HR = highly resistant; IR = intermediate

\*differential hosts and isolates that are used by the seed sector

#### 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.
- Perchepied, L., and Pitrat, M. 2004. Polygenic inheritance of partial resistance to *Fusarium oxysporum* f.sp. *melonis* race 1.2 in melon. *Phytopathology* 94: 1331- 336.

#### Protocol

CPVO. See <http://www.cpvo.europa.eu/> for a protocol on disease resistance testing

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