

Differential Sets

Podospaera xanthii (px) – Melon

Seven *Podospaera xanthii* races were validated as part of the ISF 2023 melon powdery mildew project, including two new races described by the working group. The first 5 have been kept to maintain consistency with commercial use. The new races represent part of the virulence variability existing on Px: 3.5 at present.

Differential host	Px:1*	Px:2*	Px:3*	Px:5*	Px:3.5*	Px:6	Px:7
Vedrantais*	S	S	S	S	S	S	S
PMR45*	HR	S	S	S	S	S	S
Edisto47*	HR	HR	HR	S	S	S	S
PMR5*	HR	HR	S	HR	S	S	S
Arago*	HR	HR	S	IR	IR	S	S
RIL 4	HR	HR	IR	IR	HR	S	IR
Arum*	HR	HR	HR	HR	HR	HR	S
SVI105	HR	HR	HR	HR	HR	HR	IR

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

*Differential hosts and isolates that are used by the seed sector

ISF EG DRT organized several ring tests for validation of races and differentials and define type isolate for each race. Results are presented in the Final report ISF *Podospaera xanthii* project Melon.

- **PX RACE 1: the selected type isolate is SM3**
- **PX RACE 2: the selected type isolate is S87.7**
- **PX RACE 3: the selected type isolate is 00SM39**
- **PX RACE 5: the selected type isolate is 98SM65**
- **PX RACE 3.5: the selected type isolate is UBER RACE**
- **PX RACE 6: the selected type isolate is MON 19-6**
- **PX RACE 7: the selected type isolate is VENTURIA**

References :

Lebeda et al., Cucurbitaceae, Avignon 2008; Pitrat, E-phytia 2013

Jaunet et al., Diversoid project (Casdar C-2012-10), 2017.

Pitrat et al., Amélioration du biotest pour l'évaluation de la résistance du melon à l'oïdium (*Podospaera xanthii*), AMS project C14-2008-Melon, 2012.

Protocol

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

For more information contact the ISF Secretariat at isf@worldseed.org

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