

## DIFFERENTIAL SET

### *Peronospora valerianellae* – Corn salad

Downy mildew (*Peronospora valerianellae*) is a biotrophic, seed borne pathogen of corn salad (*Valerianella locusta*) which causes deformation and sporulation on leaves of seedlings, Resistance genes have been introduced into commercial varieties. A race designation system for downy mildew with five races and *Valerianella locusta* differentials was published in 2002 (Pietrek and Zinkermagel 2002).

Only the two races Pv: 1 and Pv: 2 are used for registration of varieties and plant breeder rights. Isolates and differentials are maintained and are available through GEVES-MatRef reference material collection.

The other races (races 3, 4 and 5) are not actively used across the seed sector.

Differentials	ISF Code and races	Pv: 1	Pv: 2
	Gene (s)		
Gala		HR	S
Verte de Cambrai		S	HR
Dali, Matisse, Princess		HR	HR

### Explanatory Note:

When evaluating plant varieties for resistance to specific pathogens or pests, the following classifications are used to describe their response:

- **S** – Susceptible
- **HR** – Highly Resistant

All groups/races and differentials are actively used across the seed sector

You can find further information on these definitions in the following ISF document: <https://worldseed.org/document/definitions-of-the-terminology-plants-pests-v-o-seed-industry-2022/>

### References:

Pietrek, G., Zinkernagel, V. (2002). *Peronospora Valerianellae*, the Downy Mildew of Lamb's Lettuce (*Valerianelia Locusta*). In: Spencer-Phillips, P.T.N., Gisi, U., Lebeda, A. (eds) Advances in Downy Mildew Research. Springer, Dordrecht. [https://doi.org/10.1007/0-306-47914-1\\_7](https://doi.org/10.1007/0-306-47914-1_7)

**Protocol:**

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

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