

Ring test on diagnostic methods for *Pantoea stewartii* ssp. *stewartii*, maize bacterial blight (PANTOEAE)



Pantoea stewartii (EUVISIT) - <https://doi.org/10.1007/978-94-007-5000-0>

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Research consortium

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Goals

To optimise diagnostic methods for the detection of *Pantoea stewartii* ssp. *stewartii* in European plant health diagnostic laboratories.

Objectives

- To harmonise methodology used in European plant health laboratories for a range of diagnostic tests for detection and identification of *Pantoea stewartii* ssp. *stewartii*.
- Assess sensitivity (detection threshold and inclusivity), specificity (exclusivity), accuracy, repeatability and reproducibility of immunofluorescence (IF), PCR, real-time PCR, ELISA and fatty acid profiling for detection of *Pantoea stewartii* ssp. *stewartii* in maize seed.

Key outputs and results

- Standardised methodology agreed across European laboratories for detection of *Pantoea stewartii* ssp. *stewartii*.
- Standardised diagnostic protocols for IF, PCR, real-time PCR and ELISA developed and used by all consortium partners.
- Sensitivity (detection threshold and inclusivity), specificity (exclusivity), accuracy, repeatability and reproducibility of IF, PCR, real-time PCR and ELISA established within and between laboratories.