

AmplifyRP® XRT for Cmn (*Clavibacter michiganensis* subsp. *nebraskensis*)



Part Number: XCS 70100/0048

Test Label: FAM probe

Test Format: AmplifyRP® XRT

Internal Control: Yes - Exogenous

The bacteria *Clavibacter michiganensis* subsp. *nebraskensis* is the causal agent of Goss's Bacterial Wilt and Leaf Blight on susceptible dent corn, sweet corn, and popcorn varieties. This pathogen survives primarily on infested crop residues that serve as primary inoculum, however, seed-to-seedling transmission of Cmn has been observed at low rates. The Cmn bacteria is an incessant and economically-important pathogen of corn, and severe losses occur due to leaf blight and vascular wilt. Symptoms of Goss's Wilt can be

mistaken for leaf scorch due to water stress, wind desiccation, chemical burn, or a second bacterial disease known as Stewart's Wilt.

AmplifyRP for Cmn is a real-time isothermal DNA amplification and detection system that offers unrivaled detection capabilities in an easy-to-use testing format. It offers comparable sensitivity and specificity to published PCR methods while eliminating laborious and costly nucleic acid extractions. AmplifyRP XRT for Cmn includes an internal control to confirm that the assay amplified as intended with no inhibition.

The test can be performed remotely, or in the lab, using the battery operated AmpliFire fluorometer. Assay parameters are loaded via barcode and results are automatically displayed as (+) or (-). Prior molecular diagnostic experience is not required to perform AmplifyRP XRT tests.

NOTE: This assay requires a fluorometer to work properly.

Includes:

- XRT reaction pellets for Cmn (48)
- Pre-filled 100 µL PD1 Pellet diluent tubes (48)
- Amp1 extraction buffer (55 mL)
- Mesh extraction bags (50)
- [User Guide](#)

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