

# LOEWE® REALTIME: *Pantoea stewartii* subsp. *stewartii*

We are offering our new dye-based complete LOEWE® REALTIME reaction kit for the detection of *Pantoea stewartii* subsp. *stewartii* (Cat. No. 06129C/100).

It was validated to specifically detect the quarantine pathogen *Pantoea stewartii* subsp. *stewartii* which causes Stewart's wilt and leaf blight disease, primarily on maize plants. Besides its distribution via insect vectors, the bacterium can be found on/in seeds of maize, underlining the need for sensitive detection systems.

### Kit contents:

- ✓ Primer Mix (pathogen specific primers)
- ✓ 5x Mastermix (SolisGreen qPCR Mix\*)
- ✓ Positive Control (Synthesized DNA)
- ✓ Negative Control (healthy plant DNA)
- ✓ PCR-grade water

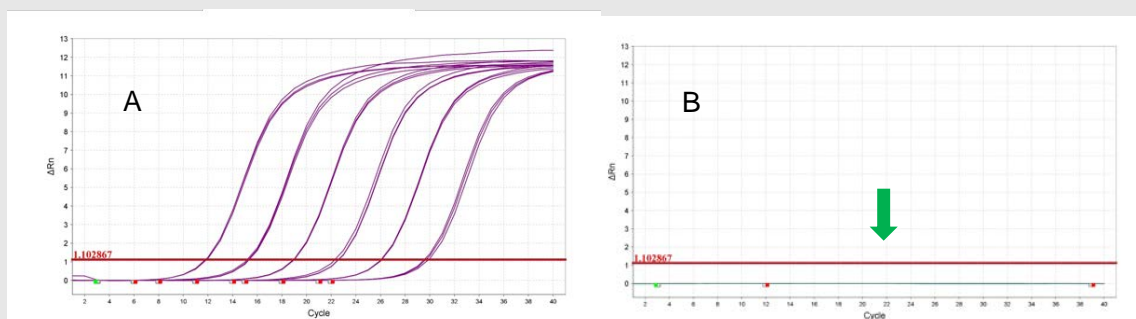
\*provided by SOLIS Biotec

## Profit from high specificity and sensitivity!

The new LOEWE® REALTIME kit for *Pantoea stewartii*, specifically **detects *Pantoea stewartii* subsp. *stewartii*** (Fig. 1A) while *Pantoea stewartii* subsp. *indologenes* - which often yields false positive results in other diagnostic tests\*\* - is NOT detected (Fig. 1B).

\*\* (2016), PM 7/60 (2) *Pantoea stewartii* subsp. *stewartii*. EPPO Bull, 46: 226-236.

**Inclusivity: 100%** (3 target strains tested positive)  
**Exclusivity: 100%** (17 non-target strains tested; all negative)  
**Analytical LOD: 0.1 pg** of genomic DNA



**Figure 1: A)** Amplification plot of the sensitive detection of *Pantoea stewartii* subsp. *stewartii* (dilution series of genomic DNA)  
**B)** Amplification plot of *Pantoea stewartii* subsp. *indologenes* giving NO amplification signal

## More diagnostic tools for *Pantoea stewartii* subsp. *stewartii*

06129C/100	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> complete REAL-TIME PCR reaction kit	100 reactions
08129S/100	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> PCR set	100 reactions
08129C/100	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> complete PCR reaction kit	100 reactions
07129S	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> ELISA set	diverse formats
07129C	<i>Pantoea stewartii</i> subsp. <i>stewartii</i> complete ELISA kit	diverse formats
07329	IF Antiserum <i>Pantoea stewartii</i> subsp. <i>stewartii</i> ex rabbit	diverse formats