First report of soft rot caused by Pectobacterium carotovorum subsp. carotovorum on cucumber in Malaysia.

ABSTRACT

In Malaysia, cucumber is produced in a warm, humid climate, thus the plant is susceptible to attack by P. carotovorum at any time during production. In 2010, cucumber samples with wilted and chlorotic leaves, water-soaked lesions, and collapsed fruits were found in multiple fields. On the basis of biochemical and morphological characteristics, PCR-based pel gene and characterization of the ITS region, digestion of the ITS-PCR products with Rsal restriction enzyme, and pathogenicity tests, the causal agent was identified as P. carotovorum subsp. carotovorum. This is thought to be the first report of soft rot caused by P. carotovorum subsp. carotovorum on cucumber from Malaysia.

Keyword: Cucumber; Soft rot; Pectobacterium.