

## Table of Contents

[In Press](#)[Online First](#)[Article Archive](#)[PPS \(55\) 2019](#)[PPS \(54\) 2018](#)[PPS \(53\) 2017](#)[PPS \(52\) 2016](#)[PPS \(51\) 2015](#)[PPS \(50\) 2014](#)[PPS \(49\) 2013](#)[PPS \(48\) 2012](#)[PPS \(47\) 2011](#)[PPS \(46\) 2010](#)[PPS \(45\) 2009](#)[PPS \(44\) 2008](#)[PPS \(43\) 2007](#)[Issue No. 1 \(1-34\)](#)[Issue No. 2 \(35-76\)](#)[Issue No. 3 \(77-126\)](#)[Issue No. 4 \(127-168\)](#)[PPS \(42\) 2006](#)[PPS \(41\) 2005](#)[PPS \(40\) 2004](#)[PPS \(39\) 2003](#)[PPS \(38\) 2002](#)[PPS \(37\) 2001](#)[PPS \(36\) 2000](#)[PPS \(35\) 1999](#)[Editorial Board](#)[Ethical Standards](#)[Reviewers 2017](#)[For Authors](#)[Author Declaration](#)[Instruction for Authors](#)[Submission Templates](#)[Guide for Authors](#)[Copyright Statement](#)[Fees](#)[Submission/Login](#)[For Reviewers](#)

## Detection of *Clavibacter michiganensis* subsp. *sepedonicus* in daughter tubers of volunteer potato plants

Iveta Pánková, Václav Krejzar, Jaroslav Čepl, Václav Kůdela

<https://doi.org/10.17221/2237-PPS>

Citation: Pánková I., Krejzar V., Čepl J., Kůdela V. (2007): Detection of *Clavibacter michiganensis* subsp. *sepedonicus* in daughter tubers of volunteer potato plants. *Plant Protect. Sci.*, 43: 127-134.

[download PDF](#)

Daughter tubers of volunteer potatoes were tested for their ability to maintain *Clavibacter michiganensis* subsp. *sepedonicus* (Cms). In different areas of the CR, volunteer potatoes were searched for in crops grown in rotation with potatoes and where one or two years before Cms had been detected and identified in samples of harvested seed or commercial potatoes using the test scheme in accordance to EC Directive 93/85/EEC. During May and June of 2005 and 2006, emerging or emerged plants of volunteer potatoes were collected at nine locations of Bohemia and transplanted to the experimental field in the Diagnostic Service Laboratory at Šluknov-Kunratice in Northern Bohemia. The daughter tubers of these plants were harvested and stored at 6°C for 1 month and then at 22°C for 3 months for multiplication of Cms cells. Samples of the daughter tubers were divided into 215 partial samples and tested for the occurrence of Cms at five terms which differed in length of storage time. The DAS ELISA test was used to detect Cms in the tuber samples. Cms was detected in eight of the nine potato volunteer tuber samples from different locations. The presence of Cms in positively tested tuber samples was confirmed using a pathogenicity test on eggplants (*Solanum melongena*). The optimal time for the detection of the pathogen in the harvested daughter tubers was between 4 and 10 weeks of storage at 22°C.

**Keywords:**

potato; *Clavibacter michiganensis* subsp. *sepedonicus*; bacterial ring rot; potato volunteer plants; incidence of occurrence; DAS ELISA; Czech Republic

[download PDF](#)

Impact factor (Web of Sc  
Thomson Reuters)

2017: 1.076

5-year Impact factc

SJR (SCImago Journal Ra  
SCOPUS):

2017: 0.348 – Q2 (Agronor  
Crop Science)

 Share
**New Issue Alert**Join the journal on [Facebook](#)**Similarity Check**

All the submitted manus  
checked by the [CrossRef  
Check](#).

**Abstracted/Indexed in**

Agrindex of Agris/FAO da  
Bibliographie der  
Pflanzenschutzliteratur  
(PhytoMed database)  
Biological Abstracts of Bi  
(BIOSIS Previews databas  
BIOSIS Previews  
CAB ABSTRACTS  
Cambridge Scientific Abs  
CNKI  
CrossRef  
Current Contents®/Agric  
Biology and Environmen  
Sciences  
Czech Agricultural and Fc  
Bibliography  
DOAJ (Directory of Open  
Journals),  
EBSCO – Academic Searc  
Ultimate  
Elsevier Bibliographic Dat  
Google Scholar  
ISI Web of Knowledge<sup>SM</sup>  
J-GATE  
Pest Directory database  
Review of Agricultural  
Entomology  
Review of Plant Patholog  
International Informatior  
(CAB Abstracts)  
SCOPUS  
Web of Science®

**Licence terms**

All content is made freely  
for non-commercial purp  
users are allowed to copy  
redistribute the material,  
transform, and build upo  
material as long as they c  
source.

**Open Access Policy**

This journal provides imr  
open access to its conten  
principle that making res

[Guide for Reviewers](#)

[Reviewers Login](#)

freely available to the public  
supports a greater global  
exchange of knowledge.

[Contact](#)

RNDr. Marcela Braunová  
Executive Editor  
e-mail: [pps@cazv.cz](mailto:pps@cazv.cz)

[Address](#)

Plant Protection Science  
Czech Academy of Agricultural  
Sciences  
Slezská 7, 120 00 Praha 2,  
Czech Republic

---

© 2018 Czech Academy of Agricultural Sciences