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[^{F1}ANNEX I

TEST SCHEME FOR DIAGNOSIS, DETECTION AND IDENTIFICATION OF THE RING ROT BACTERIUM, *CLAVIBACTER MICHIGANENSIS* (Smith) Davis *et al.* ssp. *SEPEDONICUS* (Spieckermann et Kotthoff) Davis *et al.* SCOPE OF THE TEST SCHEME

Textual Amendments

- F1** Substituted by [Commission Directive 2006/56/EC of 12 June 2006 amending the Annexes to Council Directive 93/85/EEC on the control of potato ring rot.](#)

Appendix 9

Gram stain procedure (Hucker's modification) (Doetsch, 1981)⁽¹⁾

REFERENCES

1. Anonymous, 1987. Scheme of the detection and diagnosis of the ring rot bacterium *Corynebacterium sepedonicum* in batches of potato tubers. Commission of the European Communities, Luxembourg. Publ EUR 11288 EN, 21 pp.
2. Bradbury, J. F., 1970. Isolation and preliminary study of bacteria from plants. Rev. Pl. Path., 49, 213-218.
3. Dinesen, I. G., 1984. The extraction and diagnosis of *Corynebacterium sepedonicum* from diseased potato tubers. EPPO Bull. 14 (2), 147-152.
4. Doetsch, R. N., 1981. Determinative methods of light microscopy. In: Manual of methods for general bacteriology, American Society for Microbiology, Washington, 21-23.
5. Hugh, R. and Leifson, F., 1953. The taxonomic significance of fermentative versus oxidative metabolism of carbohydrates by various gram-negative bacteria. J. Bact., 66, 24-26.
6. Janse, J. D., 1991. Infra- and intra-specific classification of *Pseudomonas solanacearum* strains using whole cell fatty-acid analysis. Systematic and Applied Microbiology 14; 335-345.
7. Janse, J. D. and J. Van Vaerenbergh. The interpretation of the EC method for the detection of latent ring rot infections (*Corynebacterium sepedonicum*) in potato. EPPO Bull., No 17, 1987, pp. 1-10.
8. Jansing, H. and K. Rudolph, 1998. Physiological capabilities of *Clavibacter michiganensis* ssp. *sepedonicus* and development of a semi-selective medium. Journal of Plant Diseases and Protection, 105, 590-601.
9. Kovacs, N., 1956. Identification of *Pseudomonas pyocyanea* by the oxidase reaction. Nature, Lond., 178, 703.
10. Klement Z.; Rudolph, K and D. C. Sands, 1990. Methods in Phytobacteriology. Akadémiai Kiadó, Budapest, 568 pp.
11. Lelliott, R. A., 1966. The plant pathogenic coryneform bacteria. J. appl. Bact., 29, 114-118.
12. Lelliott, R. A., E. Billing and A. C. Hayward, 1966. A determinative scheme for the fluorescent plant pathogenic pseudomonads J. appl. Bact., 29, 470-489.
13. Lelliott, R. A. and P. W., Sellar, 1976. The detection of latent ring rot (*Corynebacterium sepedonicum* (Spiek. et Koth.) Skapt. et Burkh.) in potato stocks. EPPO Bull., 6 (2), 101-106.
14. Li, X. and S.H. de Boer, 1995. Selection of Polymerase Chain Reaction primers from RNA intergenic spacer region for specific detection of *Clavibacter michiganensis* ssp. *sepedonicus*. Phytopathology, 85, 837-842.

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15. Mills, D., Russell, B., W. and J., W. Hanus, 1997. Specific detection of *Clavibacter michiganensis* ssp. *sepedonicus* by amplification of three unique DNA sequences isolated by subtraction hybridization. *Phytopathology*, 87, 8, 853-861.
16. Pastrik, K.-H. and R.A. Rainey. 1999. Identification and differentiation of *Clavibacter michiganensis* subspecies by polymerase chain reaction-based techniques. *J. Phytopathology* 147; 687-693.
17. Pastrik, K.-H., 2000. Detection of *Clavibacter michiganensis* ssp. *sepedonicus* in potato tubers by multiplex PCR with coamplification of host DNA. *European Journal of Plant Pathology*, 106, 155-165.
18. Ramamurthi, C. S., 1959. Comparative studies on some Gram-positive phytopathogenic bacteria and their relationship to the Corynebacteria. *Mem. Cornell agric. Exp. Sta.*, 366, 52 pp.
19. Schaad, W., Berthier-Schaad, Y., Sechler, A. and Knorr, D. (1999) Detection of *Clavibacter michiganensis* subsp. *sepedonicus* in potato tubers by BIO-PCR and an automated real-time fluorescence detection system. *Plant Disease* 83; 1095–1100.
20. Schaad, W. 2001. Laboratory guide for identification of plant pathogenic bacteria. Schaad [Hrsg.]. — 3. ed.; St. Paul, Minnesota:; 373 pp.
21. Skerman, V. B. D., 1967. A guide to the identification of the genera of bacteria. 2nd ed., William and Wilkins Company, Baltimore.
22. Smith, N. C.; Hennesy, J; Stead, D.E., 2001. Repetitive sequence-derived PCR profiling using the BOX-A1 *Ralstonia solanacearum* primer for rapid identification of plant pathogen *Clavibacter michiganensis* ssp. *sepedonicus*. *European Journal of Plant Pathology*, 107 (7), 739-748.
23. Sneath, P. H. A. and V. G. Collins, 1974. A study in test reproductibility between laboratories: report of Pseudomonas working party. *Antonie van Leeuwenhoek*, 40, 481-527.
24. Stead, D.E. 1992. Grouping of plant pathogenic and some other *Pseudomonas* spp. using cellular fatty-acid profiles. *International Journal of Systematic Bacteriology* 42; 281-295.
25. Wullings, B. A.; van Beuningen, A. R.; Janse, J. D. and A. D. L. Akkermans, 1998. Detection of *Ralstonia solanacearum*, which causes brown rot of potato, by fluorescent *in situ* hybridization with 23s rRNA-targeted probes. *Appl. Environ. Microbiol.* 64, 4546–4554.]

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(1) [^{F1}Commercially available solutions and staining kits can also be used.]

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