Molecular genetic analysis of extracellular enzyme secretion by Erwinia carotovora

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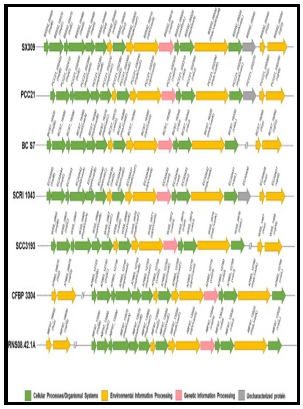

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The method was optimised and used for the direct introduction of in vitro-manipulated plasmids to Ecc. In isolation these pectic enzymes can cause the tissue maceration and cell killing, which are the primary symptoms of soft rot disease.

Identification of a global repressor gene, rsmA, of Erwinia carotovora subsp. carotovora that controls extracellular enzymes, N

Pel and Cel were still synthesised in this class of mutant but both enzymes accumulated within the periplasm. The Tn5 element and flanking DNA was cloned from HC500 and used to obtain the wild-type homologue. Either obtain a different membrane with a lower cutoff or utilize some other process so that PME losses during this step may be minimized.

Erwinia

Roles of benefit to the pathogen may include protection of bacteria against environmental stresses including the action of antimicrobial factors that may be generated in the plant, promoting pathogen multiplication by maintenance of water soaking and masking of bacterial determinants that may be recognized by plants to trigger resistance responses. These R-proteins as repressors were also found in Serratia species as described in Section 4. The findings reported here demonstrate that we have isolated six new representatives that belong to the pool of genes modulating the production of virulence factors in E.

Molecular genetic analysis of global regulation of extracellular enzyme synthesis in Erwinia carotovora subspecies carotovora

System Number of accessory proteins Specific characteristics Requirement for signal sequence dependent transfer across cytoplasmic membrane Examples Type I Usually 3 or 4 Secreted protein moves in a channel directly from the cytoplasm to the cell surface No Protease secretion in Erwinia chrysanthemi Type II Up to 14 A terminal branch of the general secretion pathway which moves proteins across the bacterial outer membrane Yes Secretion of pectinases and cellulases from Erwinia and Xanthomonas spp.

[PDF] Erwinia carotovora subsp. carotovora extracellular protease: characterization and nucleotide sequence of the gene.

Alternative genetic approaches In SCRI193 involved attempts to isolate a transducing phage, and the selection of nonsense suppressor mutants.

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