

Antibiotic sensitivity against *Xanthomonas axonopodis* pv. *citri* by using Hi media disc

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ABSTRACT

Citrus canker disease is of regular occurrence on several citrus cultivars in varying degrees of incidence depending on the climatic conditions. The bacterium, *Xanthomonas* causes different symptoms ranging from pustules to necrotic lesions consisting of erumpent corky tissue surrounded by water soaked tissues and yellow halo on leaves, stems and fruits. Sensitivity of different antibiotics were tested against *Xanthomonas axonopodis* pv. *citri* isolates (*Xac*). using eight different Hi-media disc viz., HX006, HX007, HX010, HX032, HX038, HX060, HX067, HX069. Each Hi-media disc having six different antibiotics of different concentration have been tested against *Xac* isolates. The causal pathogen *Xanthomonas axonopodis* pv. *citri* showed sensitivity to most of the antibiotic tested. Hi-media disc HX060 having antibiotic Imepenem (10mg) and Ticarcillin (70mg) showed maximum zone of inhibition (42mm). However, no effect of antibiotics i.e. Co-Trimoxazole, Nofloxacin, Cefoxitin, Erythromycin observed against *Xac*.

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