

RESEARCH ARTICLE

Efficacy of fungicides and Phyto-extracts for suppression on leaf spot of cotton caused by *Alternaria* spp.

■ P.K. MEENA* AND R.S. RATNOO

Department of Plant Pathology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, UDAIPUR (RAJASTHAN) INDIA

ARTICLE INFO

Received : 13.03.2013

Revised : 11.05.2013

Accepted : 15.05.2013

Key Words :

Fungicides, Plant extract, *Alternaria alternata*, *A. macrospora*, *A. gossypina*

***Corresponding author:**

Email: prahladkumar.meena@rediffmail.com

ABSTRACT

The principal part affected is the leaf on which small, dull to dark brown, circular or irregularly shaped spots appear, the spots varying in diameter from 0.5 to 10 mm. When these spots mature they have dry, grey centres which may crack and even drop. The spots may coalesce and occupy large area of the leaf. Fungal pathogens were isolated, purified and identified as *Alternaria alternata*, *Alternaria macrospora* and *Alternaria gossypina* and pathogenicity was confirmed on Bt and non Bt cotton in potted plants. In potted plants, minimum disease severity were obtained in Mancozeb and Hexaconazole followed by Copper oxychloride and Tilt. All fungicides as foliar sprays were able to reduce disease severity over untreated control at 0.2% followed by 0.1% concentration. Mancozeb and Hexaconazole were found most effective in management of *Alternaria* leaf spot of cotton.

How to view point the article : Meena, P.K. and Ratnoo, R.S. (2013). Efficacy of fungicides and Phyto-extracts for suppression on leaf spot of cotton caused by *Alternaria* spp. *Internat. J. Plant Protec.*, **6**(2) : 271-274.