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EFFICACY OF SOME MEDICINAL PLANT EXTRACTS AGAINST “COLLECTROTRICHUM CAPSICI” CAUSING ANTHRACNOSE DISEASE OF CHILLI

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ABSTRACT

In this study the efficacy of three selected medicinal plants extracts were studied against a fungal and plant pathogen scientifically known as “*Collectotrichum capsici*” causing Anthracnose disease on Chilli. The three selected medicinal plants were: *Withania coagulans*, *Achillea wilhelmsii*, *Zataria multiflora*. *Collectotrichum capsica* is a specie of fungus and plant pathogen which causes leaf blight on *Chlorophytum borivillianum*, basil, chickpea and pepper as well as dieback in pigeonpea and anthracnose in poinsettia. The research investigations were carried out under in-vitro conditions in department of plant pathology, at Lasbella University of Agriculture, Water and Marine Science, Uthal Balochistan. Aims of the present study were to find out the efficacy of two most effective medicinal formulations of *Achillea wilhelmsii* & *Withania coagulans* for the management of Chilli anthracnose, a predominant postharvest disease of Chilli caused by *collectotrichum capsici*. Among these medicinal plant extracts, were most effective in the in-vitro studies. *Withania coagulans* was much affected against anthracnose of Chilli and had potential to control the mycelial growth of *collectotrichum capsici* about 58.18% and *Achillea wilhelmsii* also had efficacy to control this disease about 53.89% Therefore, it is stated that commercial medicinal plant formulations have rich ability to control the postharvest diseases in Chilli and also recommended above medicinal plant extracts as safest agents for management of diseases.

Key words: Efficacy, medicinal plants, *Collectotrichum capsica*, Chilli, Lasbella.