

Influence of Nitrogen Sources on the Growth and Sporulation of *Alternaria carthami*

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Abstract: *The growth of pathogen i.e. Alternariacarthami causing Alternaria Blight of Safflower in presences of different nitrogen containing Organic sources like Asparagine, Leucine, Cystine, and Urea along with different nitrogen containing Inorganic sources viz Potassium nitrate (KNO₃), Ammonium nitrate (NH₄)₂NO₃ and sodium sulphate (Na₂So₄) were used for the study at 0.25 percent. The nutritional requirement of both the nitrogen sources was different. Some nitrogen sources stimulated the growth of the pathogen and some sources are best for sporulation. The Asparagine among the organic and potassium nitrate among the inorganic nitrogen sources were found to be the best sources for the growth and sporulation of Alternaria carthami, whereas cystine and urea were found to be inhibitory for growth and sporulation.*

Keywords: Nitrogen sources, *Alternaria carthami*, safflower