

Effect of Humic Acid on Nitrogen Fixation by *Azospirillum lipoferum*

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Abstract: *The present investigation shows the effect of humic acid on nitrogen fixation by Azospirillum lipoferum inoculated soil. There was an increase in nitrogenase activity of soil amended with humic acid (in the form of sodium humate) and Azospirillum alone or in combination of each other. The maximum activity was recorded on 10th day of incubation. Humic acid alone was having a stimulatory effect on nitrogenase activity of soil only up to 6th day after that there was decline in the activity. The stimulatory effect of humate on population of Azotobacter and biological nitrogen fixation has been reported by Gaur and Co-workers. (Gaur and Mathur: 1966; Gaur, Mathur and Bhardwaj, 1968; Bhardwaj and Gaur; 1970).*

Keywords: Azospirillum lipoferum

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