Effect of biofertilizers and nitrogen on growth, yield and quality traits in knol khol (Brassica oleracea L. var. GONGYLODES)

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ABSTRACT
An experiment was conducted in Randomized Block Design at Vegetable Farm Main Campus Chatha, Jammu during 2006-07 and 2007-08 to study the effect of biofertilizers Azospirillum and Azotobacter and nitrogen on growth, vegetable yield and quality of Knol-khol cv. KING OF MARKET. Azospirillum inoculation significantly increased growth, yield and quality characters over control. The inoculation of Azotobacter also recorded better performance. Both the bacterial inoculants responded to all levels of nitrogen with an increase in growth, yield and quality parameters as compared to control. However, better results were obtained by the application of 75% of chemical nitrogen along with both the inoculants, thereby a saving of 25% chemical nitrogen application during both the years of study. However, the application of Azospirillum along with 75% chemical nitrogen proved better than Azotobacter.

Key words: Knol khol, Biofertilizers, Nitrogen, Azospirillum, Azatobactor