

An Asian Journal of Soil Science

Volume 8 | Issue 1 | June, 2013 | 19-24



Research Article

Effect of organic and inorganic nutrient sources on available sulphur, aryl sulfatase activity and yield of ashwagandha

B. VAJANTHA, M. UMADEVI, M.C. PATNAIK AND M. RAJKUMAR

Received : 15.12.2012; Revised : 08.02.2013; Accepted : 10.03.2013

MEMBERS OF RESEARCH FORUM : Summary

Corresponding author :

B. VAJANTHA, Department of Soil Science, Agricultural Research Station, Perumallapalle, TIRUPATHI (A.P.) INDIA

Co-authors : M. UMADEVI, M.C. PATNAIK AND M. RAJKUMAR, Department of Soil Science and Agricultural Chemistry, College of Agriculture, Rajendranagar (ANGRAU) HYDERABAD (A.P.) INDIA The field experiments were conducted to study the effect of organic manures and inorganic fertilisers on available S, aryl sulfatase activity and root yield of Ashwagandha and it revealed that combined effect of organic and inorganic sources of nutrients proved better than effect of their individual use. Among the various combinations studied performanance of 150% RDF+castor cake @2.5 t ha⁻¹ + bio fertilisers recorded the highest available S (13.62 and 10.73 kg ha⁻¹ at harvest in *Rabi* 2007-08 and *Kharif* 2008, respectively)), aryl sulfatase activity (51.21 and 45.12 µg of p-nitro phenol released g⁻¹ soil h⁻¹) and dry root yield (348 and 333 kg ha⁻¹ at harvest in *Rabi* 2007-08 and *Kharif* 2008, respectively).

Key words : Ashwagandha, Castor cake, Vermicompost, Panchagavya, Available S, Enzyme activity, Dry root yield

How to cite this article : Vajantha, B., Umadevi, M., Patnaik, M.C. and Rajkumar, M. (2013). Effect of organic and inorganic nutrient sources on available sulphur, aryl sulfatase activity and yield of ashwagandha. *Asian J. Soil Sci.*, **8**(1): 19-24.