

ANTIOXIDANT POTENTIAL AND PHYTOCHEMICAL ANALYSIS OF *ALLIUM SATIVUM* (L.)

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ABSTRACT

In the present investigation, Allium Sativum L. was analyzed for primary metabolites (Carbohydrates, Lipid, Protein and Phenol) as they have potent nutritional value. Carbohydrates, lipid, proteins and phenols were found to be present in the extracts of garlic on phytochemical analysis by standard procedures, the highest amount was of Protein (180mg/gdw) from the bulb. The antioxidant activity was performed using FRAP, Peroxides assay, LPO, Catalyze. Allium Sativum L. bulb was found to be better antioxidant potential when sample analyzed by FRAP while the shoot was showing better potential in Peroxidase and LPO method.

KEYWORDS:-Primary metabolites, Allium Sativum L & Anti-oxidant

Abbreviations:-FRAP assay:-ferric ion reducing antioxidant power, ABTS:-2,2'-Azino-bis(3-ethyl benzothiazoline-6-sulfonic acid, DPPH radical scavenging assay:- 1,1-diphenyl-2-picrylhydrazyl. LPO:-Lipid peroxides assay Peroxides, CAT:-Catalase assay, POXA:-Peroxidase Assay

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