



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.11 No.02, pp 142-146, 2018

Angiotensin converting enzyme inhibitory effect of *Medicago sativa* root extract

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Abstract : Angiotensin-converting enzyme plays an important role in treatment of hypertension. The purpose of present study is to estimate *in vitro*(angiotensin converting enzyme) ACE inhibitory activity of *Medicago sativa* Linn. Root. The ability to inhibit ACE was measured by direct spectrophotometric method. ACE inhibitory study was evaluated by using Lisinopril as standard. Extract were prepared by successive maceration with toluene, chloroform, methanol and water. Among all extract tested of root methanol extract showed the maximum and dose dependent ACE inhibitory activity at IC_{50} value of 34.43 ± 0.31 μ g/ml concentration. Standard Lisinopril possess inhibition of ACE at IC_{50} value of 0.2599 ± 0.02 ng/ml. Present study shows root methanol extract of *Medicago sativa* as potential ACE inhibitor. *Medicago sativa* can further explored for active constituent responsible for ACE inhibitory activity.

Keywords : Hypertension, Alfalfa, Angiotensin converting enzyme, *Medicago sativa*.

Pandya Devang J et al /International Journal of ChemTech Research, 2018,11(02): 142-146

DOI= <http://dx.doi.org/10.20902/IJCTR.2018.110217>
