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## ISOLATION AND CHARACTERISATION OF BIOACTIVE COMPOUNDS OF MEDICINAL PLANTS REPORTED TO HAVING ADAPTOGENIC PROPERTIES

**Shrikant Kadam<sup>1</sup>, Pawar Vinod S<sup>1</sup>, Vikrant Taware<sup>1</sup>  
and Shivakumar Hugar<sup>2</sup>**

<sup>1</sup>SVPM'S College of Pharmacy, India

<sup>2</sup>BLDEA's SSM College of Pharmacy and Research Centre, India

**P**lants biosynthesize numerous secondary metabolites possessing diverse chemical structures. Search of bioactive compound responsible to elicit adaptogenic effect has been herculean task.

In the present study also, we have isolated the quercetin and gallic acid from methanolic extract of *G. lucidum* and gallic acid from methanolic extract of *P. Senega*. The preliminary TLC studies of MEGL and MEPS demonstrated presence of phenolic compounds. Therefore, for isolation of these phenolic compounds, methanol extract was fractionated by using Toluene: ethyl Acetate: Formic acid (v/v/v) (7:5:1) and characterized by spectral (UV, IR, <sup>1</sup>HNMR and Mass) analysis.

Fractions were separated by using column chromatographic separation. The obtained spectral data was compared with literature and showed the complete agreement of quercetin and gallic acid. The presence of these bioactive components could be responsible for the observed potential adaptogenic activity.

## BIOGRAPHY

Shrikant Kadam working as a Assistant Professor in the Department of Pharmaceutical Chemistry, SVPM's College of Pharmacy, Malegaon (Bk), Baramati, affiliated to Savitribai Phule Pune university, Pune, India. He has received M.Pharm degree from Shivaji University Kolhapur. He is having 11 years of teaching experience in Biochemistry and Pharmaceutical Analysis. His area of research lies in the field of Pharmaceutics, Biotechnology and Analysis. He is a life member of Association of Pharmaceutical Teachers of India (APTI) and Registered Pharmacist of Maharashtra State Pharmacy council (MSPC), India.

[shrikant.kadamsvpm@gmail.com](mailto:shrikant.kadamsvpm@gmail.com)



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