

**PS809: PHARMACOGNOSY - III LAB****B. Pharm IV Year II sem**

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<b>0</b>	<b>0</b>	<b>3</b>	<b>2</b>

**List of Experiments**

1. Isolation of Caffeine from a marketed formulation
2. Isolation of Piperine from Black Pepper
3. Detection of alkaloids in a powdered crude drug by precipitation tests
4. Extraction and TLC of Nux-vomica/Cinchona alkaloids
5. Detection of Steroidal/Triterpenoidal and Flavonoidal glycosides in powdered crude drugs by test tube reaction method
6. Differentiation of a glycoside and its aglycone by TLC.
7. Identification of powdered crude drugs containing Alkaloids by general chemical test and specific chemical test to identify the particular Alkaloid.
8. Identification of powdered crude drugs containing glycosides by general chemical test and specific chemical test to identify the particular glycosides.
9. Study of Morphology and microscopy of crude drugs by transverse section
  - a. Ephedra            b. Vinca            c. Nux vomica    d. Cinchona    e. Senna
10. Identification of powdered crude drugs by their Microscopical characterization
  - a. Senna    b. Rauwolfia    c. liquorice    d. Nux-vomica    e) Kurchi
11. Identification of powdered crude drugs by their Microscopical characterization
  - a. Cinchona    b. Cinnamon    c. Vasaka    d.Datura            e) Ephedra
12. Isolation of Strychnine and Brucine from Nux vomica seeds.
13. Isolation of Nicotine from Tobacco leaves.
14. Aseptic seed germination for Trigonella fenugrecium.
15. Spotting – Identification of crude drugs mentioned in theory by organoleptic method.

**REFERENCES**

1. Practical Pharmacognosy by C. K. Kokate
2. Plant Drug Analysis by Wagner. H. & Blandt. S.
3. Pharmacognosy of Powdered Crude Drugs by M.A. Iyengar
4. Anatomy of Crude Drugs by M. A. Iyengar and S. C. K. Nayak
5. Study of Crude Drugs by M.A. Iyengar 15<sup>th</sup> Edition
6. Practical Pharmacognosy by T E Wallis 4<sup>th</sup> Edition
7. Practical Pharmacognosy by Dr. G.S. Kumar and Dr. K.N. Jayaveera
8. Practical Pharmacognosy by Saroja Joshi and Vidhu Aeri