

CONTENTS

S. No.	Experiment Name	Class	Page No.
1.	Introduction to Methods of Extraction		1
2.	Isolation of Piperine from Black Pepper	Alkaloids	11
3.	Isolation of Caffeine from Tea	Alkaloid	14
4.	Extraction of Solanine from Potatoes	Alkaloid	16
5.	Extraction of Crude Solasodine from Berries of <i>Solanum khaisanum</i>	Alkaloid	19
6.	Extraction of Berberine from Berberis Root	Alkaloids	22
7.	Extraction of Vasicine from Vasaka Leaves	Alkaloid	25
8.	Extraction of Quinine from Cinchona Bark	Alkaloid	28
9.	Extraction of Strychnine and Brucine from Nuxvomica	Alkaloid	31
10.	Isolation of Nicotine Picrate from Tobacco Leaves	Alkaloid	34
11.	Isolation of Lactose from Milk	Carbohydrate	36
12.	Extraction of Pectin from Orange Peels	Carbohydrate	39
13.	Isolation of Starch from Potatoes	Carbohydrate	42
14.	Isolation of Lycopene from Tomatoes	Carotinoids	45
15.	Extraction of Lawsone from Henna	Carotinoids	48
16.	Extraction of Calcium Citrate from Lemon	Dietary supplement	50
17.	Isolation of Eugenol from Cinnamon Leaf Oil	Essential oil	53
18.	Isolation of Carvone from Seeds of <i>Nigella Sativa</i>	Essential oil	56
19.	Extraction of Hesperidin from Orange Peel	Flavonoids	58
20.	Isolation of Curcumin from Turmeric	Flavonoids	61
21.	Extraction of Rutin from Leaves of <i>Ruta graveolens</i>	Flavonoid	64
22.	Extraction of Cetyl Alcohol from Spermaceti	Fatty alcohol	67
23.	Extraction of Aloin from Aloes	Glycosides	69
24.	Extraction of Sennosides as Calcium Salts from Senna leaves	Glycoside	72
25.	Extraction of Ammonium Glycyrrhizinate from Liquorice	Glycoside	75
26.	Isolation of Casein from Milk	Protein	78
27.	Extraction of Resin from Indian Podophyllum	Polymer	81
28.	Extraction of Jalap Resin	Resin	84

29.	Extraction of Oleoresin from Ginger	Resin	86
30.	Isolation of Diosgenin from Tubers of <i>Dioscorea bulbifera</i>	Saponin	88
31.	Extraction of Hecogenin from Agave	Steroid	91
32.	Extraction of Tannic Acid from Myrobalan	Tannins	93
33.	Separation of Ellagic Acid From fruits of <i>Terminalia bellirica</i>	Tannins	95
34.	Synthesis and Characterization of Aspirin (Acetylsalicylic acid)		97
35.	Synthesis and Characterization of Acetaminophen		99
36.	Synthesis and Characterization of Barbituric Acid from Diethyl Malonate		101
37.	Synthesis and Characterization of Phenytoin from Benzoin or Benzil		103
38.	Synthesis and Characterization of 1,4-Dihydropyridine from Ethyl Acetoacetate		106
39.	Synthesis and Characterization of Quinazolinone from Anthranilic Acid		108
40.	Synthesis and Characterization of Fenofibrate		110
41.	Synthesis and Characterization of Isoniazid from Gamma Picoline		112
42.	Synthesis and Characterization of Antipyrine		114
43.	Synthesis and Characterization of Benzocaine		116
44.	Preparation and Characterization of Sulfanilamide from Acetanilide		119
45.	Estimation of Hydroxyl Groups in Phenols		122
46.	Estimation of Amino Group		126
47.	Estimation of Esters of Carboxylic Acids		130
48.	Estimation of an Amide		132
49.	Estimation of Aldehydes and Ketones		134