

# HALDIA INSTITUTE OF PHARMACY

ICARE Complex, Hatiberia, Haldia, Purba Medinipur, W.B. – 721657

Programme:	B. Pharm	Semester:	V
Subject:	Industrial Pharmacy I	Subject Code:	BP506P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	Preformulation studies on paracetamol/asparin/or any other drug	Prasad.M, Jha. K. A, Srivastava. K. S, 2019, "Industrial Pharmacy-I", 1 <sup>st</sup> edition, page no- 3-11, NiraliPrakashan.
Day 2	2.	Preparation and evaluation of Paracetamol tablets	Same as above, page no- 16-38
Day 3	3.	Preparation and evaluation of Aspirin tablets	Same as above, page no- 16-38
Day 4	4.	Coating of tablets- film coating of tables/granules	R. M. Mehata, Phramaceutics-I,page no-267-273, VallabhPrakashan
Day 5	5.	Preparation and evaluation of Tetracycline capsules	Prasad.M, Jha. K. A, Srivastava. K. S, 2019, "Industrial Pharmacy-I", 1 <sup>st</sup> edition, page no- 41-42, NiraliPrakashan.
Day 6	6.	Preparation of Calcium Gluconate injection	Same as above, page no- 45
Day 7	7.	Preparation of Ascorbic Acid injection	Same as above, page no- 44-45
Day 8	8.	Quality control test of (as per IP) marketed tablets and capsules	Same as above, page no- 9-35
Day 9	9.	Preparation of Eye drops/ and Eye ointments	Same as above, page no- 47-52
Day 10	10.	Preparation of Creams (cold / vanishing cream)	Same as above, page no- 52-55



*Sattanayak*  
Prof. (Dr.) Suran Pattanayak  
M.Pharm. Ph.D.  
PRINCIPAL  
Haldia Institute of Pharmacy  
ICARE Complex, P.O. Hatiberia, Haldia  
Purba Medinipur, W.B., Pin-721657

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Programme:	B. Pharm	Semester:	V
Subject:	Pharmacology II	Subject Code:	BP507P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	Instrument used in experimental pharmacology	Dr. Manjunatha P. Mudagal, A practical book of pharmacology- II, 1-7, Nirali P rakashan.
Day 2	2.	Introduction to in vitro pharmacology and physiological salt solutions	Same as above, page no- 8-10
Day 3	3.	Effect of drugs on isolated frog heart	Same as above, page no- 11-12
	4.	Effect of drugs on blood pressure and heart rate of dog	Same as above, page no- 12-18
Day 4	5.	Study of diuretic activity of drugs using rats/mice	Same as above, page no- 18-29
	6.	DRC of acetylcholine using frog rectus abdominis muscle	Same as above, page no- 29-32
Day 5	7.	Effect of physostigmine and atropine or DRC of acetylcholine using frog rectus abdominis muscle and rat ileum respectively	Same as above, page no- 51-53
Day 6	8.	Bioassay of histamine using guinea pig ileum by matching method	Same as above, page no- 32-34
	9.	Bioassay of oxytocin using rat uterine horn by interpolation method	Same as above, page no- 35-37
Day 7	10.	Bioassay of serotonin using rat fundus strip by three point bioassay	Same as above, page no- 37-40
	11.	Bioassay of acetylcholine using rat ileum/colon by four point bioassay	Same as above, page no- 40-44
Day 8	12.	Determination of PD <sub>2</sub> value using guinea pig ileum	Same as above, page no- 48-50
	13.	Anti-inflammatory activity of drugs using carrageenan induced paw-edema model	Same as above, page no- 53-56
Day 9	14.	Analgesic activity of drug using central and peripheral methods	Same as above, page no- 56-62
Day 10	15.	Two point -bioassay	S.K.Kulkarni, Handbook of experimental pharmacology, 111-112, VallabhPrakashan.



*Sattanayam*  
Prof. (Dr.) Suman Pattanayak  
M.Pharm. Ph.D.  
PRINCIPAL  
Haldia Institute of Pharmacy  
ICARE Complex, P.O. Hatiberia, Haldia  
Purba Medinipur, W.B., Pin-721657

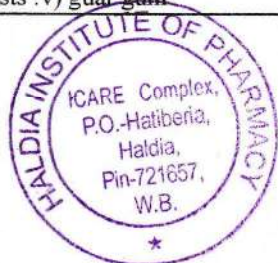
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Programme:	B. Pharm	Semester:	V
Subject:	Pharmacognosy and Phytochemistry II	Subject Code:	BP508P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	Morphology ,histology, powder characteristics, extraction & detection of Cinnamon,	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (3-4)
	2.	Morphology ,histology, powder characteristics, extraction & detection of Senna	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (5-6)
	3.	Morphology ,histology, powder characteristics, extraction & detection of clove	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (7-8)
Day 2	4.	Morphology ,histology, powder characteristics, extraction & detection of fennel,	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (11-12)
	5.	Morphology ,histology, powder characteristics, extraction & detection of coriander	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (13-14)
	6.	Morphology ,histology, powder characteristics, extraction & detection of ginger	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (9-10)
Day 3	7.	Exercise involving isolation & detection of caffeine from Tea dust	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (32-34)
	8.	Exercise involving isolation & detection of starch from potatoes	<a href="https://biochemden.com/isolation-of-starch-from-potatoes/">https://biochemden.com/isolation-of-starch-from-potatoes/</a>
Day 4	9.	Exercise involving isolation & detection of diosgenin from dioscorea	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (35-36)
Day 5	10.	Exercise involving isolation & detection of atropine from belladonna	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (37-38)
Day 6	11.	Exercise involving isolation & detection of sennosides from senna	A practical book of pharmacognosy and phytochemistry-II by SB Gokhale (21-22)
Day 7	12.	Separation of sugars by paper chromatography	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (41-44)
Day 8	13.	TLC of Herbal Extract	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (45-57)
	14.	Exercise involving isolation & detection of beta-amylase from sweet potatoes	<a href="https://vlab.amrita.edu/?sub=3&amp;brch=64&amp;sim=730&amp;cnt=1">https://vlab.amrita.edu/?sub=3&amp;brch=64&amp;sim=730&amp;cnt=1</a> <a href="https://vlab.amrita.edu/?sub=3&amp;brch=64&amp;sim=730&amp;cnt=2">https://vlab.amrita.edu/?sub=3&amp;brch=64&amp;sim=730&amp;cnt=2</a>
Day 9	15.	Distillation of volatile oils and detection of Phytoconstituents by TLC	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (58-60)
Day 10	16.	Analysis of crude drugs by chemical tests : i) Asafoetida	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (61-62)
	17.	Analysis of crude drugs by chemical tests :ii) benzoin	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (66-67)
	18.	Analysis of crude drugs by chemical tests :iii) black catechu	<a href="https://www.pharmacy180.com/article/black-catechu-323/">https://www.pharmacy180.com/article/black-catechu-323/</a>
	19.	Analysis of crude drugs by chemical tests :iv) aloes	A practical book of pharmacognosy&phytochemistry-II by dr. parjanyakumarshukla (64-65)
	20.	Analysis of crude drugs by chemical tests :v) guar gum	Practical book for herbal drug technology by Dr.santaramlodhi(18-22)



*Sattanayam*  
Prof. (Dr.) Sungh Pattanayak  
M.Pharm. Ph.D.  
PRINCIPAL  
Haldia Institute of Pharmacy  
ICARE Complex, P.O. - Hatiberia, Haldia  
Purba Medinipur, W.B., Pin-721657