

# HALDIA INSTITUTE OF PHARMACY

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

Programme:	B. Pharm	Semester:	VI
Subject:	Medicinal Chemistry III	Subject Code:	BP607P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	To carry out the synthesis of 7-Hydroxy-4-methyl coumarin from Resorcinol.	Rajak H. Practical Medicinal Chemistry. 1 <sup>st</sup> ed. New Delhi: CBS Publishers & Distributors Pvt. Ltd, 2021. p. 27-28
	2.	To carry out the synthesis of Chlorobutanol from Acetone.	Same as above. p. 29-30
Day 2	3.	To carry out the synthesis of 2,4,5-Triphenylimidazole from benzil.	Same as above. p. 31-32
	4.	To carry out the synthesis of Hexamine from Formaldehyde.	Tiwari A, Kumar R. A Practical Book of Medicinal Chemistry. 1 <sup>st</sup> ed. Pune: Niral Prakashan; 2019. p. 49
Day 3	5.	To carry out the synthesis of Sulphanilamide.	Rajak H. Practical Medicinal Chemistry. 1 <sup>st</sup> ed. New Delhi: CBS Publishers & Distributors Pvt. Ltd; 2021. p. 23-25
Day 4	6.	To perform the assay Metronidazole Tablet.	Naveed DS, Qamar F. Simple UV Spectrophotometric Assay of Metronidazole. 2014;1(6)
Day 5	7.	To perform the assay Metronidazole injection IP using UV Spectrophotometer.	Das J, Dhua M. UV-spectrophotometric assay method development and validation of metronidazole in bulk and tablet formulation. Journal of pharmasciTech. 2014;3(2):106-9.
Day 6	8.	To establish the Pharmacopoeial Standard for Aspirin Tablet according to Indian Pharmacopoeia.	Indian Pharmacopoeia 2010. 6 <sup>th</sup> ed. Vol. II. Ghazibad: The Indian Pharmacopoeia Commission; 2010. p. 843
Day 7	9.	To estimate the content of Paracetamol in the given drug using Colorimeter.	Indian Pharmacopoeia 2010. 6 <sup>th</sup> ed. Vol. III. Ghazibad: The Indian Pharmacopoeia Commission; 2010. p. 1861-1862
Day 8	10.	To prepare aspirin using microwave (MW irradiation technique).	Rajak H. Practical Medicinal Chemistry. 1 <sup>st</sup> ed. New Delhi: CBS Publishers & Distributors Pvt. Ltd; 2021. p. 62-63
Day 9	11.	To perform the assay of Dapsone.	De A, Dey S, Pradhan PK, Chaudhari F, Patel M. Estimation Of Dapsone In Bulk & Dosage Form By Uv Spectroscopic Method. American Journal of Pharm Research. 2014;4(01).
	12.	To perform the assay of Chlorpheniramine Meleate	Mishra K, Kumar BK, Kumari MM, Subrahmanyam BS. New analytical method development and validation of chlorpheniramine maleate by using uv-visible spectrophotometry. Indo American Journal of Pharmaceutical Sciences. 2016 Jul 1;3(7):767-72.
Day 10	13.	Draw the chemical structure and reaction schemes using ChemDraw.	Tiwari A, Kumar R. A Practical Book of Medicinal Chemistry. 1 <sup>st</sup> ed. Pune: Niral Prakashan; 2019. p. 85-87
	14.	To screening the drug likeness and toxicity properties using online tools.	Same as above. p. 88-92



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Programme:	B. Pharm	Semester:	VI
Subject:	Herbal Drug Technology	Subject Code:	BP609P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	To perform preliminary phytochemical screening of crude drugs	Practical book for herbal drug technology by santaramlodhi (8-10)
Day 2	2.	Preparation of Asava& Arista	<a href="https://www.yourarticlelibrary.com/medicine/ayurvedic/preparation-of-arista-and-asavas-methods-and-uses/49964">https://www.yourarticlelibrary.com/medicine/ayurvedic/preparation-of-arista-and-asavas-methods-and-uses/49964</a>
	3.	Determination of the alcohol content of Asava& Arista	Practical book for herbal drug technology by santaramlodhi (41-46)
Day 3	4.	Evaluation of excipients of natural origin: Agar	Practical book for herbal drug technology by santaramlodhi (12-22)
	5.	Evaluation of excipients of natural origin: Guar gum	Practical book for herbal drug technology by santaramlodhi (12-22)
	6.	Evaluation of excipients of natural origin: Gum acacia	Practical book for herbal drug technology by santaramlodhi (12-22)
	7.	Evaluation of excipients of natural origin: Gum tragacanth	Practical book for herbal drug technology by santaramlodhi (12-22)
	8.	Evaluation of excipients of natural origin: Pectin	Practical book for herbal drug technology by santaramlodhi (12-22)
	9.	Evaluation of excipients of natural origin: Starch	Practical book for herbal drug technology by santaramlodhi (12-22)
	10.	Evaluation of excipients of natural origin: Tamarind seed	Practical book for herbal drug technology by santaramlodhi (12-22)
	11.	Evaluation of excipients of natural origin: Xanthan gum	Practical book for herbal drug technology by santaramlodhi (12-22)
Day 4	12.	Incorporation of prepared and standardized extract in cosmetic formulations like creams & their evaluation	Practical book for herbal drug technology by santaramlodhi (26-31)
	13.	Incorporation of prepared and standardized extract in cosmetic formulations like lotions & their evaluation	Practical book for herbal drug technology by santaramlodhi (33-35)
	14.	Incorporation of prepared and standardized extract in cosmetic formulations like shampoos & their evaluation	Practical book for herbal drug technology by santaramlodhi (37-40)
Day 5	15.	Incorporation of prepared and standardized extracts in formulation like syrups, and evaluation as per Pharmacopoeial requirements	Practical book for herbal drug technology by santaramlodhi (47-49)
	16.	Incorporation of prepared and standardized extracts in formulation like mixtures and evaluation as per Pharmacopoeial requirements	Practical book for herbal drug technology by santaramlodhi (57-59)
Day 6	17.	Incorporation of prepared and standardized extracts in formulation like tablets and evaluation as per Pharmacopoeial requirements	Practical book for herbal drug technology by santaramlodhi (52-55)
Day 7	18.	Monograph analysis of herbal drugs from recent pharmacopoeias	Practical book for herbal drug technology by santaramlodhi(69-71)
Day 8	19.	Determination of aldehyde content	Practical book for herbal drug technology by santaramlodhi (61-63)
Day 9	20.	Determination of phenol content	Practical book for herbal drug technology by santaramlodhi (64-65)
Day 10	21.	Determination of total alkaloids	Practical book for herbal drug technology by santaramlodhi (66-67)



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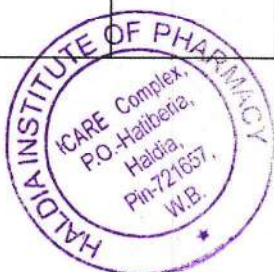
# HALDIA INSTITUTE OF PHARMACY

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Programme:	B. Pharm	Semester:	VI
Subject:	Pharmacology III	Subject Code:	BP608P

## List of Experiments

Day	Exp. No.	Name of Experiment	Reference
Day 1	1.	Commonly used instruments in experimental pharmacology	Handbook of experimental pharmacology, S.kulkarni, Vallabhprakashan, New Delhi, pp-2-9
	2.	Preparation of physiological salt solution	Same as above, pp-10-11
	3.	Dose calculation in pharmacological experiments	A practical book of pharmacology-III, Sachin D shindey, Pee vee, New Delhi, pp-1-7
Day 2	4.	Study of anti-ulcer activity of a drug using pylorus ligand (SHAY) rat model and NSAIDS induced ulcer model.	Same as above, pp-11-12
	5.	Study of effect of drugs on gastrointestinal motility	Handbook of experimental pharmacology, S.kulkarni, Vallabhprakashan, New Delhi, pp-187-189
Day 3	6.	Effect of agonist and antagonists on guinea pig ileum	A practical book of pharmacology-III, Sachin D shindey, Pee vee, New Delhi, pp-21-22
	7.	Estimation of serum biochemical parameters by using semi- autoanalyser	Same as above, pp-23-25
Day 4	8.	Effect of saline purgative on frog intestine	Same as above, pp-27-29
	9.	Insulin hypoglycemic effect in rabbit	Same as above, pp-30-33
Day 5	10.	Test for pyrogens ( rabbit method)	Same as above, pp-34-39
Day 6	11.	Determination of acute oral toxicity (LD50) of a drug from a given data	Same as above, pp-37-38
Day 7	12.	Determination of acute skin irritation / corrosion of a test substance	Same as above, pp-40-42
Day 8	13.	Determination of acute eye irritation / corrosion of a test substance	Same as above, pp-44-48
Day 9	14.	Calculation of pharmacokinetic parameters from a given data	Same as above, pp-49-55
Day 10	15.	Biostatistics methods in experimental pharmacology( student's t test, ANOVA)	Same as above, pp-56-66
	16.	Biostatistics methods in experimental pharmacology (Chi square test, Wilcoxon Signed Rank test)	Same as above, pp-67-71



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