

## 10.2 Replacement and judging method of consumables

Items	Quantity	Replacement Period	Judgment Method
1 <sup>st</sup> 5µmPP filter	1 piece	2-3 Monthly	Replace when the colour of the filter cartridge becomes deep yellow.
2 <sup>nd</sup> AC filter	1 piece	4-6 Monthly	If the tap water bleaching powder is serious or the water consumption is large, the replacement cycle is shortened, and the replacement is synchronized with the 1st 5µmPP filter.
3 <sup>rd</sup> 1µmPP filter	1 piece	4-6 Monthly	Shorten the replacement time when the local feed water is bad.
RO membrane	1 piece	yearly	Test the conductivity of pure water. Replace when the conductivity exceeds 10µs/cm.
Integrated ultra-purification kit	1 piece	yearly	Replace when the resistivity is less than 10MΩ.cm.
Purification column	1 piece		
Microfiltration	1 piece		

**Note:** Consumables replacement period may vary subject to feed water quality.



Quattro House, Lyon Way, Camberley, Surrey GU16 7ER United Kingdom  
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# Lab Manual For Water Purification

**Harry Linn Fisher**



## Lab Manual For Water Purification:

*Laboratory manual* William McPherson, 1913      *A Laboratory Manual in Chemistry* William Conger Morgan, James Alexander Lyman, 1916      **Laboratory Manual for Biotechnology and Laboratory Science** Lisa A. Seidman, Mary Ellen Kraus, Diana Lietzke Brandner, Jeanette Mowery, 2022-12-23 Provides the basic laboratory skills and knowledge to pursue a career in biotechnology Written by four biotechnology instructors with over 20 years of teaching experience it incorporates instruction exercises and laboratory activities that the authors have been using and perfecting for years These exercises and activities help students understand the fundamentals of working in a biotechnology laboratory Building skills through an organized and systematic presentation of materials procedures and tasks the manual explores overarching themes that relate to all biotechnology workplaces including forensic clinical quality control environmental and other testing laboratories Features Provides clear instructions and step by step exercises to make learning the material easier for students There are Lab Notes for Instructors in the Support Material see tab below Emphasizes fundamental laboratory skills that prepare students for the industry Builds students skills through an organized and systematic presentation of materials procedures and tasks Updates reflect recent innovations and regulatory requirements to ensure students stay up to date Supplies skills suitable for careers in forensic clinical quality control environmental and other testing laboratories

**Practical/Laboratory Manual Chemistry Class - XI** Er. Meera Goyal, 2021-05-29

1 Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

Viva Voce

2 Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- Viva Voce
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- Viva Voce
- 3 To prepare crystals of pure potash alum  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$  from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

Viva Voce

3 Measurement of pH Values

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid  $CH_3COOH$  of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion  $CH_3COO^-$  ion in case of weak acid  $CH_3COOH$
- 5 To determine the change in pH value of weak base  $NH_4OH$  in presence of a common ion  $NH_4^+$

Viva Voce

4 Chemical Equilibrium

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between  $Co(H_2O)_6^{2+}$  and  $Cl^-$  ions by changing the concentrations of either of the ions

Viva Voce

5 Quantitative Analysis

- 1 To prepare M/10 oxalic acid solution by direct weighing method
- 2 To prepare M/10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N/10 or

M 20 solution of oxalic acid 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution Viva Voce 6 Qualitative Analysis Analysis of Anions Analysis of Cations Viva Voce 7 Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test Viva Voce INVESTIGATORY PROJECTS 1 Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions Viva Voce 2 Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 To purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method Viva Voce 3 Water Analysis 1 To test the hardness of different water samples Viva Voce 4 Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap Viva Voce 5 Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6 Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids Viva Voce 8 Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce

### **Laboratory Manual in General Microbiology**

Michigan State University. Department of Bacteriology and Public Health, 1916 Laboratory Manual in General Microbiology Ward Giltner, 1916 *Laboratory Manual of Social Pharmacy* Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Prashant D. Aragade, Dr. Vishwajeet S. Ghorpade, 2023-09-28 We are pleased to put forth the revised edition of Laboratory Manual of Social Pharmacy This manual is prepared as per the PCI Education Regulations 2020 for Diploma in Pharmacy This laboratory manual is intended to give broad knowledge of social pharmacy and the role of pharmacists in various health care services The practicals included are the services provided by the government or private health care industries that are not known to the common public This manual will create emphasis on that and make students think of it search it brainstorm it and use this information to counsel the community In addition some of the experiments are on health and hygiene that help to prevent the various communicable diseases and maintain personal hygiene Moreover the role of pharmacist in various scenes is identified and communicated to the students so the students are aware of it and demonstrate these skills to the society when necessary We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum

theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed This manual is a sincere effort to improve the community and social oriented skills in the pharmacy students The students have to perform tasks in each experiment like visiting the PHC pharmacy community pharmacy hospital searching on the WHO websites etc to make this manual interesting for the students and teachers This manual asks the student to prepare various promotional materials of the health care services and hygienic care required to be taken by the society for a healthier and happier community life We acknowledge the help and cooperation extended by various persons in bringing out this manual We are highly indebted to the authors of various books and articles mentioned in references of each experiment which became a major source of information for writing this manual We also admire the publishers designers and printers who graciously worked hard to publish this manual

**Laboratory Manual in General Microbiology** Michigan Agricultural College. Department of Bacteriology and Hygiene, Michigan State University. Dept. of Bacteriology and Public Health, 1921 The full text of the first edition 1916 is available at <http://www.biodiversitylibrary.org/item/62094> *Laboratory Manual in General Microbiology*, 1926

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Cement Laboratory Manual Leslie Abram Waterbury, 1908

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