

### Gel Electrophoresis Lab Questions

**Micropipettes:** Watch the "Using a Micropipette" video posted on Google Classroom and answer the questions below.

- What do the numbers mean in the micropipette names? (i.e. P2, P20, P200, P1000)
  - The maximum volume of liquid each micropipette can hold. For example, the P1000 can pipette a maximum of 1000 microliters
- Fill out the table for the range of volumes in microliters ( $\mu\text{l}$ ) that each pipette can hold. The first one has been done for you.

Micropipette Volume Ranges		
Micropipette	Minimum Volume ( $\mu\text{l}$ )	Maximum Volume ( $\mu\text{l}$ )
P2	0.2	2
P20	2	20
P200	20	200
P1000	100	1000

- What can happen to the micropipette if you measure volumes outside of the appropriate range?
  - Inaccurate volume measurements
  - Damage to internal mechanisms of the pipette
- If you have the number 100 listed on the volume indicator (see image on right) of a P2 and P200 micropipette, are you transferring the same amount of volume of that sample? Please explain.
  - No, since the decimal place changes. This would be 1 microliter ( $\mu\text{l}$ ) for the P2, compared to 100 microliters of the P200 ( $\mu\text{l}$ ).
- List the steps of transferring liquids with a micropipette. Be sure to include all steps involved in 1) setting the volume, 2) attaching pipette tips, and 3) pipetting volumes. Use key words in the image below.
  - Setting the volume



# Gel Electrophoresis Answer Key

**Tina Susan Hronis**



## **Gel Electrophoresis Answer Key:**

*TEXT BOOK OF INSTRUMENTAL METHODS OF ANALYSIS* Dr. Gaurav Deep Singh, Dr. Gurvinder Pal Singh, Prof. Shruti Chandrakant Sonawane, Dr. Ashish Balasaheb Jadhav, Milind B. Kshirsagar, 2025-06-03 The Textbook of Instrumental Methods of Analysis provides a comprehensive overview of key analytical techniques used in modern scientific laboratories. It begins with an in-depth exploration of UV-Visible spectroscopy, covering the theory behind electronic transitions, the role of chromophores and auxochromes, and the impact of solvents on spectral data. The principles and mathematical foundation of Beer and Lambert's law are explained, along with common deviations. The section also describes critical components of UV instrumentation, including radiation sources, wavelength selectors, detectors, and sample cells. Applications such as spectrophotometric titrations and both single and multi-component analysis are discussed. The book continues with fluorimetry, emphasizing the theory behind fluorescence, the influence of singlet and triplet states, and factors like quenching that impact signal intensity. IR spectroscopy is covered in detail, explaining molecular vibrations, instrumentation, and various detectors like the Golay cell and thermopile. Flame photometry and atomic absorption spectroscopy are presented with clarity, outlining their principles, interferences, and applications. Chapters on nepheloturbidometry and chromatography introduce important separation techniques. The text delves into classical and modern chromatographic methods, including thin layer chromatography, paper chromatography, and electrophoresis, offering practical methodology, advantages, and applications. Advanced topics such as gas chromatography, GC, high performance liquid chromatography (HPLC), ion exchange, and affinity chromatography are addressed with discussions on theory, instrumentation, and real-world uses. This textbook is structured to support students and professionals in understanding both the theoretical background and practical implementation of instrumental analysis techniques, making it an essential resource for courses in pharmaceutical, chemical, and biological sciences.

*TEXT BOOK OF INSTRUMENTAL METHODS OF ANALYSIS* Dr. Pichika Mallikarjuna Rao, Dr. Balijepalli Madhu Katyayani, Dr. Pradeep Adlak, Dr. Vishal Trivedi, Mr. Manish Jyotiyana, 2025-07-02 The Text Book of Instrumental Methods of Analysis serves as a comprehensive guide for students and professionals in pharmaceutical and analytical sciences. It provides detailed theoretical and practical insights into a wide array of instrumental techniques widely used for qualitative and quantitative analysis of substances. The book begins with UV-Visible spectroscopy, explaining electronic transitions, chromophores, auxochromes, spectral shifts, and instrumentation details, including various detectors and their working principles. It moves on to Fluorimetry, covering fundamental concepts such as singlet and triplet states, quenching, and fluorescence behavior, supported by practical applications. Infrared (IR) spectroscopy is also extensively covered, discussing vibrational modes, sample handling, and advanced detectors like the Golay cell and pyroelectric detectors. The text also includes Flame Photometry and Atomic Absorption Spectroscopy, explaining their principles, instrumentation, interferences, and pharmaceutical applications. Nepheloturbidometry is addressed with clear discussion of its principle and

uses A significant portion of the book is devoted to chromatographic techniques such as adsorption partition thin layer paper ion exchange gel and affinity chromatography Each method is discussed with a focus on principle methodology advantages limitations and real world applications Electrophoretic techniques including paper gel and capillary electrophoresis are also detailed Advanced instrumental methods like Gas Chromatography GC and High Performance Liquid Chromatography HPLC are presented with discussions on theory derivatization temperature programming and instrumentation The inclusion of modern applications and detailed instrument design makes the book particularly useful for hands on laboratory work Throughout the book balances conceptual clarity with practical insights making it suitable for undergraduate postgraduate and professional use Its systematic layout thorough explanation of principles and inclusion of contemporary instrumentation render it an essential text for mastering analytical methods in modern science

**TEXT BOOK OF MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES**, 2026-01-13 This textbook provides a detailed and integrated overview of modern pharmaceutical analytical techniques that are fundamental to drug analysis and quality control It systematically introduces both classical and advanced instrumental methods used in pharmaceutical sciences Beginning with UV Visible spectroscopy the book explains its theoretical basis laws instrumentation solvent effects and wide pharmaceutical applications Infrared spectroscopy is discussed with emphasis on molecular vibrations sample handling dispersive and FT IR instruments and factors influencing vibrational frequencies Spectrofluorimetry is presented as a highly sensitive technique covering fluorescence theory quenching phenomena instrumentation and analytical applications Flame emission spectroscopy and atomic absorption spectroscopy are explained in parallel highlighting their principles instrumentation interferences and utility in elemental analysis The section on NMR spectroscopy offers an in depth understanding of nuclear properties chemical shift spin spin coupling relaxation processes and advanced techniques such as FT NMR and C NMR Mass spectroscopy chapters describe ionization methods mass analyzers fragmentation patterns isotopic peaks and pharmaceutical applications Chromatography is extensively covered including paper TLC GC HPLC ion exchange affinity and column chromatography with focus on principles parameters and resolution factors Electrophoresis techniques are explained with working conditions separation factors and applications X ray crystallography provides insight into crystal structure determination using diffraction methods and Bragg s law Immunological assays such as RIA ELISA and bioluminescence assays are also included Overall the book serves as a comprehensive exam oriented and practical resource for students and professionals in pharmaceutical analysis

**TEXT BOOK OF MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES** Dr. Bindu Rathore, Dr. Neha, Mr. Sumit Kumar, Ms.Megha Nigam, Ms.Shila Ghosh, 2025-09-16 The Textbook of Modern Pharmaceutical Analytical Techniques is a comprehensive guide that explores a wide range of analytical tools essential for pharmaceutical sciences It begins with UV Visible spectroscopy covering its introduction theoretical principles governing laws instrumentation solvent effects and diverse applications in drug analysis The book then moves into Infrared

IR spectroscopy explaining molecular vibrations sample handling dispersive and Fourier Transform IR spectrometers factors influencing vibrational frequencies and its significance in pharmaceutical applications A detailed chapter on Spectrofluorimetry highlights the theory of fluorescence influencing factors quenchers instrumentation and its vital role in qualitative and quantitative analysis Further Flame Emission Spectroscopy FES and Atomic Absorption Spectroscopy AAS are thoroughly explained focusing on principles instrumentation interferences and pharmaceutical applications especially in trace metal analysis The text also covers Nuclear Magnetic Resonance NMR spectroscopy providing insights into quantum numbers basic principles instrumentation solvent requirements relaxation processes signal interpretation chemical shifts spin spin coupling coupling constants and advanced techniques like FT NMR and  $^{13}\text{C}$  NMR The applications of NMR in structural elucidation of drugs are given special emphasis Following this Mass Spectroscopy is presented with clarity elaborating its principle instrumentation ionization techniques EI CI FAB MALDI ESI APCI APPI types of analyzers fragmentation rules metastable ions isotopic peaks and wide ranging pharmaceutical applications A large portion of the book is devoted to Chromatography offering a complete discussion on principles apparatus instrumentation chromatographic parameters and factors affecting resolution across various techniques These include paper chromatography thin layer chromatography TLC ion exchange chromatography column chromatography gas chromatography GC high performance liquid chromatography HPLC and affinity chromatography Each method is explained with its specific advantages and pharmaceutical uses The section on Electrophoresis elaborates on different types such as paper gel capillary zone moving boundary and isoelectric focusing describing their principles instrumentation working conditions influencing factors and applications in protein and drug separation The book also introduces X ray Crystallography explaining X ray production diffraction methods Bragg s law rotating crystal technique X ray powder diffraction crystal types and applications in determining drug and biomolecule structures Finally it includes Immunological Assays covering the principles instrumentation working conditions influencing factors and applications of radioimmunoassay RIA enzyme linked immunosorbent assay ELISA and bioluminescence assays emphasizing their relevance in modern drug analysis and diagnostics

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*DNA Cloning* David M. Glover, B. D. Hames, 1995

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**Genetics** Robert J. Brooker,Brooker Robert,2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises     *The Purification and Characterization of  $\beta$ -galactosidase from Rat Mammary Gland* Chao-Hen Kuo,1976

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