

# Urinalysis

## HASPI Medical Biology Lab 18

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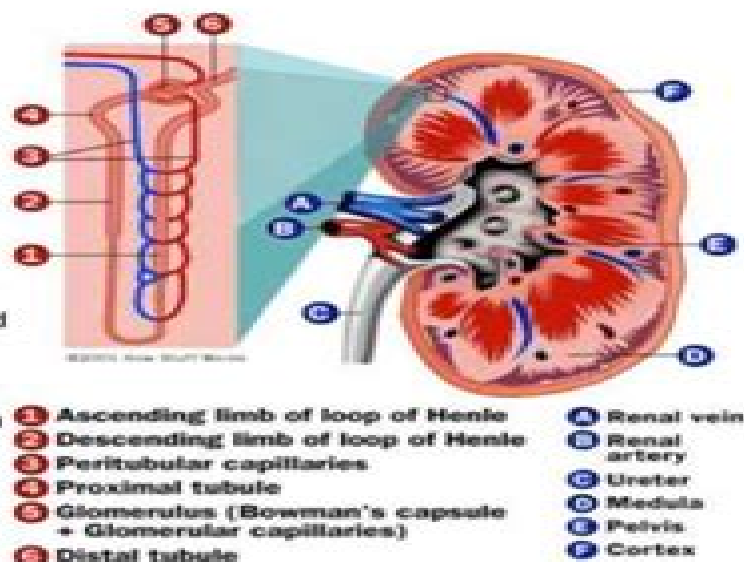
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### Background

#### The Kidneys and Filtration

The **kidneys** are two organs, located in the lower back on either side of the spine. The kidneys are responsible for filtering substances, as well as maintaining a balance, or **homeostasis**, of substances in the blood. The **renal arteries** pass blood into the kidneys, and the **renal veins** bring blood back out of the kidneys. Anything that is removed from the blood by the kidneys ends up as **urine**. Urine flows from the kidney, down the **ureter**, and ends up in the **bladder**. From there urine can be released out of the **urethra**.

Within the kidneys a complex network of filtering units and tubes called the **nephrons** can be found. The part of the kidney that is responsible for filtering is the **glomerulus**. Small capillaries, called **glomerular capillaries**, lead into the glomerulus and allow the substances to pass through their thin membranes. The filtered substances are then passed through a complex network of tubes that eventually lead to the bladder. As these substances pass through this network and into the bladder, they may be reabsorbed or secreted from the body. The kidneys filter the entire volume of blood in our body 20-25 times every day (Freudenrich 2001).



<http://health.howstuffworks.com/human-body/systems/kidney-urinary/kidney5.htm>

### Urinalysis

The urinalysis is a test that determines what is present in secreted urine. It can reveal many different types of diseases, even those without any visible symptoms. A urinalysis usually includes a visual observation of the urine for color and clarity, a microscopic observation for sediment particles, and a urine dipstick chemical analysis. The chemical analysis is capable of determining pH, specific gravity, glucose, proteins, bilirubin, ketones, presence of blood, urobilinogen nitrites, and leukocytes.

The urinalysis is a useful tool in determining whether a patient's kidneys are functioning regularly as well as helping to diagnose conditions including hydration level, infections, bacteria, liver disease, kidney stones, gallstones, anemia, kidney failure, proteinuria, diabetes, or drug use (just to name a few). Normal versus abnormal levels for a urinalysis, as well as possible conditions that may cause abnormal levels are included in the following data table:



<http://www.scienceaid.com.au/essays/urinalysis.asp>

# Simulating Urinalysis Lab Activity Student Study Guide

**James Tyson**



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### **Table of Contents Simulating Urinalysis Lab Activity Student Study Guide**

1. Understanding the eBook Simulating Urinalysis Lab Activity Student Study Guide
  - The Rise of Digital Reading Simulating Urinalysis Lab Activity Student Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Simulating Urinalysis Lab Activity Student Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Simulating Urinalysis Lab Activity Student Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Simulating Urinalysis Lab Activity Student Study Guide
  - Personalized Recommendations
  - Simulating Urinalysis Lab Activity Student Study Guide User Reviews and Ratings
  - Simulating Urinalysis Lab Activity Student Study Guide and Bestseller Lists

5. Accessing Simulating Urinalysis Lab Activity Student Study Guide Free and Paid eBooks
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  - Simulating Urinalysis Lab Activity Student Study Guide eBook Subscription Services
  - Simulating Urinalysis Lab Activity Student Study Guide Budget-Friendly Options
6. Navigating Simulating Urinalysis Lab Activity Student Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Simulating Urinalysis Lab Activity Student Study Guide Compatibility with Devices
  - Simulating Urinalysis Lab Activity Student Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Simulating Urinalysis Lab Activity Student Study Guide
  - Highlighting and Note-Taking Simulating Urinalysis Lab Activity Student Study Guide
  - Interactive Elements Simulating Urinalysis Lab Activity Student Study Guide
8. Staying Engaged with Simulating Urinalysis Lab Activity Student Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Simulating Urinalysis Lab Activity Student Study Guide
9. Balancing eBooks and Physical Books Simulating Urinalysis Lab Activity Student Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Simulating Urinalysis Lab Activity Student Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Simulating Urinalysis Lab Activity Student Study Guide
  - Setting Reading Goals Simulating Urinalysis Lab Activity Student Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Simulating Urinalysis Lab Activity Student Study Guide
  - Fact-Checking eBook Content of Simulating Urinalysis Lab Activity Student Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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