



7A Examining Onion Tissue

What is onion tissue made of?

Do you think peeling an onion will make you cry? Well, here's your chance to test your hypothesis. In this investigation, you will peel a thin layer from a piece of onion. You will stain that layer of tissue on a microscope slide. Then you will examine your slide under a microscope and make sketches of what you see.

Safety tip: Wear gloves, goggles, and an apron while preparing the slides.

Materials

- Microscope
- Slides
- Coverslips
- Tweezers
- Piece of onion
- Iodine stain

WARNING — This lab contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

1 Preparing a slide of onion tissue

Onions have many layers. The inner surface of each layer has a thin layer of tissue that's easy to peel off. Since it is almost transparent, you will need to apply a stain so you can see things under a microscope. Follow the procedures below to make a slide of onion tissue.

1. Place a drop of iodine stain onto a slide.
2. Using the tweezers, gently peel the thin layer of tissue off the inside of a small piece of onion.
3. Using the tweezers, gently lower the onion skin onto the slide. Be careful not to crease the skin.
4. Use the tweezers to place a cover slip over the onion skin.



2 Stop and think

- a. What is the purpose of the iodine stain?

7a Examining Onion Tissue Lab Answers

N Colangelo

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Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses. This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired. Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life. These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today. Morbidity and Mortality Weekly Report, 1960 **Prentice Hall Biology** Sandra Gottfried, Gerry M. Madrazo, Jr., 1990 Morbidity and Mortality, 1960-10 Biology, 1996 **Annotated Instructor's Edition for Investigating Biology** Judith Giles Morgan, 1999 *Laboratory Investigations in Cell Biology* Allyn A. Bregman, 1987 Contained in this text are 18 laboratory projects that explore the structural biochemical and physiological nature of eukaryotic cells. Topics are largely traditional however several investigations employ new methodologies. Extended coverage of biochemistry is offered and materials have been selected for availability and ease of handling eg extraction of DNA and RNA done with calf liver succinate dehydrogenase activity studied in mitochondria isolate from cauliflower. *Laboratory Investigations in Cell and Molecular Biology* Allyn A. Bregman, 2002 This revised workbook lab text consists of 21 projects that can be executed with readily available materials a minimum of elaborate equipment and a reasonable amount of preparation time. Early projects deal with biochemistry and cytochemistry the middle ones focus on organelles and their physiology and later activities explore more advanced molecular topics such as restriction mapping strategies. New to this edition a concise section on statistics covering the mean standard deviation and standard error and a chapter designed to enable students to write up their work as a lab report. Laboratory Investigations in Cell and Molecular Biology Allyn Bregman, 1996-02-02 This revised workbook lab text consists of 21 projects that can be executed with readily available materials a minimum of elaborate equipment and a reasonable amount of preparation time. Early projects deal with biochemistry and cytochemistry the middle ones focus on organelles and their physiology and later activities explore more advanced molecular topics such as restriction mapping strategies. New to this edition a concise section on statistics covering the mean standard deviation and standard error and a chapter designed to enable students to write up their work as a lab report. *Journal of Biological Education*, 1981 **Biological Science ; an Inquiry Into Life** Biological Sciences Curriculum Study, 1963 **Biology Laboratory Manual** Darrell S. Vodopich, Randy Moore, 1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques. The experiments and procedures are simple safe easy to perform and especially appropriate for large classes. Few experiments require a second class meeting to complete the procedure. Each exercise includes many photographs traditional topics and experiments that help students learn about life.

Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students
the style of the instructor and the facilities available *A Laboratory Survey of Biology* Lawrence S. Dillon, William Anderson
Cooper, 1962 **A Laboratory Manual for the Study of General Botany** William Evans Lawrence, 1930 Cumulated
Index Medicus, 1967 **Archives of Pathology & Laboratory Medicine**, 2008 **Exploring Biology in the Laboratory**
Alyce M. Fiedler, Laurence I. Fulton, 1974 **Science 7, 8, 9: Progress report, preliminary recommendations and**
suggested materials for an orientation block, "Introduction to science, tools, and measurement" University of the
State of New York. Bureau of Secondary Curriculum Development, 1963 *Laboratory Exercises* Harold Lee Dean, 1944
Canadian Journal of Biochemistry and Cell Biology, 1985

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **7a Examining Onion Tissue Lab Answers**

In a global inundated with monitors and the cacophony of fast connection, the profound power and mental resonance of verbal art frequently diminish in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, located within the musical pages of **7a Examining Onion Tissue Lab Answers**, a captivating perform of fictional brilliance that impels with fresh feelings, lies an memorable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, that enchanting opus books readers on a mental odyssey, delicately exposing the latent potential and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect their charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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