

DNA Extraction Lab

Purpose: After reading *DNA Extraction from Wheat Germ*, design your own procedures for extracting DNA from a wheat germ sample.

Materials:

4 grams raw wheat germ	20 mL isopropyl alcohol	beaker of H ₂ O
50 ml beaker	thermometer	graduated cylinder
1 mL detergent	pipette	DNA collection tool
test tube rack	test tube	scale

Reading Notes: While reading, determine what information might help you in writing your procedures. Write down specifics about what your steps should be, and any information on temperature or materials.

- Wheat germ is the source of DNA in this lab
- Warm water softens the membranes
- Enzymes denatures at 60° degrees C
- DNA denatures at 80° degrees C
- Detergent pulls apart the fats and proteins that make up the membranes = releases DNA
- Cold alcohol pulls the DNA out of the water/detergent/wheat germ solution

Procedures: Now that you have some idea of what is required to extract DNA, write down your procedures. There is not a set number of steps, so you do not need to use all of the space provided. After you have had your steps approved by your teacher, provide the reason you chose the selected step. **Important! The amounts listed above are the maximum allotted. You do not need to use the entire amount provided.**

Teacher initials:

Steps	Reason for step
* These are the actual procedures for extraction. It is unlikely the students will be so specific...or accurate on their first trial.	1. Source of DNA
1. Place approx. 1 tsp. of raw wheat germ in a small beaker.	2. Warm water softens membranes and will aid in denaturing enzymes while not denaturing the DNA
2. Measure 15 ml of warm water (50 – 60 °C) in a graduated cylinder and pour it into the beaker with the wheat germ. Stir constantly with a spoon for 3 minutes.	3. Detergent pulls membranes apart
3. Add 6 drops of detergent to the mixture and stir GENTLY. Stir <i>gently</i> for 30 seconds, rest for 30 seconds and so on until 5 minutes is up. Try not to create foam.	4. N/A
4. After 5 minutes, there should not be any foam, but if there is, use a corner of the paper towel to	5. Allow reaction to take place
	6. Isolate the DNA solution from wheat germ waste
	7. Angle will aid in layering and pouring
	8. Cold alcohol will pull the DNA out of solution
	9. Continued
	10. See the DNA!

Dna Extraction Lab Answer Key

Tobias Bleicker



Dna Extraction Lab Answer Key:

Molecular Microbiology Laboratory Walt Ream, Bruce Geller, Katherine Field, 2012-08-31 Intends to teach principles and techniques of molecular biology and microbial ecology to upper level undergraduates majoring in the life sciences and to develop students scientific writing skills This title exposes students to the molecular based techniques It provides faculty with an accessible resource for teaching protocols WorldCat *Introduction to Biology* National Agricultural Institute, 2014-08-27 Introduction to Biology is one in a series of Just The Facts JTF textbooks created by the National Agricultural Institute for secondary and postsecondary programs in biology agriculture food and natural resources AFNR This is a bold new approach to textbooks The textbook presents the essential knowledge of introductory biology in outline format This essential knowledge is supported by a main concept learning objectives and key terms at the beginning of each section references and a short assessment at the end of each section Content of the book is further enhanced for student learning by connecting with complementary PowerPoint presentations and websites through QR codes scanned by smart phones or tablets or URLs The textbook is available in print and electronic formats To purchase electronic copies inquire at info.national.ag.institute.org

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Phylogenomic Data Acquisition W. Bryan Jennings,2016-12-12 Phylogenomics is a rapidly growing field of study concerned with using genome wide data usually in the form of DNA sequence loci to infer the evolution of genes genomes and the Tree of Life Accordingly this discipline connects many areas in biology including molecular and genomic evolution systems biology molecular systematics phylogeography conservation genetics DNA barcoding and others With the advent of Next Generation Sequencing in addition to advances in computer hardware and software over the past decade researchers can now generate unparalleled phylogenomic datasets that are helping to illuminate many areas in the life sciences This book is an introduction to the principles and practices of gathering these data Phylogenomic Data Acquisition Principles and Practice is intended for a broad cross section of biologists and anyone else interested in learning how to obtain phylogenomic data using the latest methods *EPA Publications Bibliography, 1984-1990: Report summaries* ,1990 *Introduction to Molecular Biological Techniques* Lawrence Jack Bradshaw,1966 **Criminology, Penology and Police Science Abstracts** ,1994 **The Use of Food in Chemistry Experiments to Engage and Enrich the Teaching in the Classroom** Brian Michael Topping,2010 Computer Evolution of Gene Circuits for Cell-embedded Computation, Biotechnology and as a Model for Evolutionary Computation Tommaso F. Bersano-Begey,2003 **The O.J. Simpson Murder Trial** ,1996 *The New Yorker* Harold Wallace Ross,William Shawn,Tina Brown,David Remnick,Katharine Sergeant Angell White,Rea Irvin,Roger Angell,2000 Government Reports Annual Index ,1993 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z Biology-- a Human Approach Biological Sciences Curriculum Study,1997 Anthro Notes ,1998 *Progress in Forensic Genetics 11* International Society for Forensic Genetics. Congress,2006 This volume contains mainly short three page manuscripts of the oral and poster presentations at the congress The manuscripts have been through a reviewing and an editing procedure **Proceedings** ,1999 **Plant Biology** Linda E. Graham,James M. Graham,Lee Warren Wilcox,2003 This book focuses readers on the function of plants and the role they play in our world The authors emphasize the scientific method to help readers develop the critical thinking skills they need to make sound decisions throughout life This focus on how plants work and the development of critical thinking skills together support the

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