

Paper Plasmid Lab

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Paper Plasmid Lab

After you have taped the four strips into one long strip, tape the two remaining ends together, to form one long circular paper plasmid. Save the key about antibiotic resistance, from the bottom of the pink sheet for later use. Save extra plasmid pieces until you have successfully completed step #8.

The E. coli Insulin Factory - Biology Junction

1-15-16 Agenda & Objective Paper Plasmid Lab ObjectiveObjective Create a model of a recombinant plasmid and use it to explain how they are made and why they are useful 2. Preparation Cut out the Cell DNA (goldenrod). These must be glued together in the order indicated at the bottom. □Keep this DNA in one long sheet.

Paper plasmid lab - SlideShare

LAB __: CLONING PAPER PLASMID In this exercise you will use paper to simulate the cloning of a gene from one organism into a bacterial plasmid using a restriction enzyme digest. The plasmid (puc18 plasmid) can then be

A AGCT T TCGA A G AATT C TTAA G - Explore Biology

Recombinant "Paper" Plasmid Text References: ... you will simulate the process of forming a recombinant plasmid using paper ... • plasmid map • answers to questions RECOMBINANT DNA USING BACTERIAL PLASMIDS

Recombinant Paper Plasmid Lab Answers

Cloning Paper Plasmid Lab - 1 The most common vectors are... 1. The most common vectors are plasmids. They are small accessory rings of DNA from bacteria.

Cloning Paper Plasmid Lab - Course Hero

In the lab, the recombinant plasmid would be mixed with bacteria in a process called transformation to get the bacteria to take up the recombinant plasmid. After transformation the bacteria would be grown on media that contained the antibiotics in order to screen for the bacteria that took up the plasmid that contained the gene of interest.

AP Bio Recombinant Paper Plasmid Lab - Course Hero

LAB: CLONING PAPER PLASMID In this exercise you will use paper to simulate the cloning of a gene from one organism into a bacterial plasmid using a restriction enzyme digest. The plasmid (puc18 plasmid) can then be used to transform bacteria so that it now expresses a new gene and produces a new protein. 1. The white strip represents the plasmid puc18 2.

Paper Plasmid activity - Liberty Union High School District

Molecular Biology & Biotechnology This lab is a nice quick paper demo on the process of cloning a gene into a plasmid. It reviews the concepts of restriction enzymes, "sticky ends", cloning, and transformation. It is helpful to get a picture in students' heads of the process.

Explore Biology | Labs | AP Biology Teaching & Learning ...

How can I elute plasmid dried on paper and transform chemically competent E coli cells with it? ... Try mixing your control plasmid with your eluted plasmid. If the source lab used "bad" paper, it ...

How can I elute plasmid dried on paper and transform ...

Students construct paper recombinant plasmids to simulate the methods genetic engineers use to create modified bacteria. They learn what role enzymes, DNA and genes play in the modification of organisms.

Bacteria Transformation - Activity - TeachEngineering

Recombinant "Paper" Plasmid Background: Many bacteria contain plasmids, small independent DNA fragments that carry specific pieces of genetic information, such as resistance to specific antibiotics

or other genetic characteristics.

Recombinant Paper Plasmid Background

Two segments. Teacher directions followed by student results and discussion. Key Terms Reviewed: Functional Recombinant DNA Restriction enzyme, Transgenic Organism, Plasmid, Gene Splicing ...

LAB: Recombinant DNA using Paper Plasmids

I need help with a few questions: 1: Why did we make sure to include the start and stop DNA sequences for the Jellyfish Glo gene in our cut segment 2: What would have happened if we had cut both the Jellyfish Glo gene and puc18 plasmid with the EcoR1 restriction enzyme? Be sure to look on the paper DNA sequences to find the EcoR1 restriction enzyme cut sites.

Cloning Paper Plasmids AP Bio Lab Help? | Yahoo Answers

Recombinant Paper Plasmids Cut-and-Paste Biotechnology ... The workhorse of this transfer step is the plasmid, a small ring-shaped piece of DNA found naturally in most bacteria. Plasmids have a region, called the replication ... I. Complete the Recombinant Paper Plasmids Laboratory Investigation. MATERIALS / RESOURCES Plasmid Pattern Sheet

Recombinant Paper Plasmids Cut-and-Paste Biotechnology

PAPER RECOMBINANT DNA USING... have received the plasmid that you inserted. In a real lab situation, you would mix your recombinant DNA plasmids with the bacteria... Recombinant DNA Paper Plasmid Lab - Foothill Tech

Recombinant Paper Plasmids Lab Answers

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Cloning Paper Plasmid Lab Flashcards | Quizlet

1) Mark a circled area with a pencil (not a marker pen) on a clean Whatman #1 filter paper (or equivalent). 2) Spot about 2 µg of plasmid DNA into the circle. Allow the filter paper dry at room temperature. 3) Insert spotted filter paper inside a plastic bag and heat-seal it.

Shipping of Plasmids on Filter Paper - University of Surrey

Remove the rack containing the tubes from the ice and place on the bench top. Open a tube and, using a new sterile pipet, add 250 µl of LB nutrient broth to the tube and reclose it. Repeat with a new sterile pipet for the other tube. Incubate the tubes for 10 minutes at room temperature.

- pGLO Lab Report - Blake's Honors Biology Site - Google

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