

Free ebook Strawberry extraction lab answers (2023)

pre lab questions 1 what do you think the dna will look like 2 where is dna found 3 what is an octoploid materials needed ziploc bag containing 3 strawberries and 3 tablespoons of dna extracting solution funnel plastic cup extraction 1 perform a single extraction using approximately 25ml 25 ml of diethyl ether an exact amount is not necessary as described previously making sure to appropriately label each layer e g top organic layer and bottom aqueous layer extraction 2 return the aqueous layer to the separatory funnel 1 by getting a better understanding of dna scientists can apply that info to other things such as the search of life in foreign plants the re creation of life and finding cures 2 scientists can study it more closely and find out the dna sequencing a structure characteristics of the particular organism what are the 4 main steps of dna extraction collect cheek cells burst cells open to release dna separate dna from proteins and debris isolate concentrated dna what are the 2 ingredients in lysis solution and what does each do can you remove dna from a strawberry try it out in the dna extraction lab lesson plan learn how to extract dna from cells dna extraction strawberry strawberries are octoploid which means they have eight sets of chromosomes the procedure for extracting dna from a strawberry is simple and the results are usually obvious it is easy to see the white strands of dna within the pink solution of strawberry juice in a plant like the strawberry where would you likely find dna discuss the answers to the questions with a partner think pair share and then the class activity dna extraction from strawberries the first step in working with nucleic acids dna and rna is to remove the molecules from inside the cell instruction sheet for teachers next generation science standards arizona standards common core standards learn more this is a companion pdf for these online articles and activities askabiologist asu edu activities banana dna askabiologist asu edu explore dna abcs askabiologist asu edu getting genetics straight lab for dna extraction of plant material his process of extraction can be summarized into four steps answer the questions below while watching the video hints are given as to the video times for each step 5 what was the first step in dna extraction by the dna analyst did you do anything like this explain hint 0 00 0 38 6 study with quizlet and memorize flashcards containing terms like define explain the extraction process types of extractions liquid liquid extraction and more in this experiment you will extract deoxyribonucleic acid dna from the cells of an onion and will detect the presence of dna in your sample using a qualitative test discussion dna a polymer found in all living cells contains all of the genetic information needed for controlling cellular growth and development what are three reasons why dna may be extracted from other cells click the card to flip genetic testing body identification analysis of forensic evidence click the card to flip 1 11 flashcards learn test match q chat created by stewari3 students also viewed dna extraction virtual lab ap ib sl biology 10 terms aynclaire steps steps 1 2 place strawberries in a plastic bag after closing the bag smash the strawberries for 2 minutes until nice and smashed step 3 make dna extraction solution by adding the following to the first plastic cup steps 3 4 after gently mixing the extraction solution until salt is dissolved pour it into the bag of smashed extracting dna in 10 easy steps mush the banana in the resealable bag for about a minute until all the lumps are gone and it almost looks like pudding fill a cup with the hot water and salt pour the saltwater mix into the bag close the bag and very gently squeeze and move the saltwater and banana mush together summarize the main steps involved in extracting dna from bananas possible answer we crushed the bananas to help release the dna we made a solution water soap and salt to free the dna extraction of dna from cells is a relatively straight forward and simple process it is routinely carried out

in laboratories and has numerous downstream applications including sequencing and pcr only a few reagents were used to extract dna from cells lysis buffer protease and ethanol solvent extraction abstract solvent extraction is a method used to separate and purify compounds in the case of the this experiment the compound that will be extracted is dibenzyl acetone the extraction technique heavily depends on a compounds solubility to separate the organic phase from the aqueous phase of a mixture the extraction and purification of dna are of primary importance to the field of biotechnology and forensics dna extraction allows for analysis including the detection of genetic disorders identification of individuals using dna fingerprints and studies involving gmos genetically modified organisms banana dna extraction lab quiz list the objectives of the lab click the card to flip to describe where dna is located in a plant cell explain what procedures are required to extract dna from a plant cell and to observe the extraction of genomic dna from plant cells click the card to flip procedure for extraction buffer 1 put 1 3 of a banana into the ziplock bag squeezing out all air 3 gently mash the banana to a pulp for 2 minutes 4 open the bag and add 20 ml extraction buffer into ziplock bag 5 filter the mixture through a cheese cloth save the filtrate liquid coming through 6 pour 10 ml of the filtrate into a test

strawberry dna extraction lab activity sheet name before you May 01 2024 pre lab questions 1 what do you think the dna will look like 2 where is dna found 3 what is an octoploid materials needed ziploc bag containing 3 strawberries and 3 tablespoons of dna extracting solution funnel plastic cup

4 6 step by step procedures for extractions chemistry Mar 31 2024 extraction 1 perform a single extraction using approximately 25ml 25 ml of diethyl ether an exact amount is not necessary as described previously making sure to appropriately label each layer e g top organic layer and bottom aqueous layer extraction 2 return the aqueous layer to the separatory funnel

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