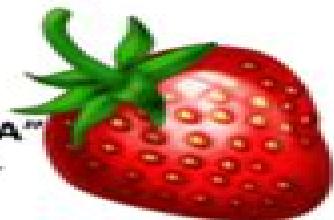


DNA Extraction from Strawberry cells: "Berry Full of DNA"

Answers for the questions below may be written directly on this lab paper.



Purpose: To isolate chromosomes from strawberries via precipitation in ethanol.

Materials: Room temperature strawberries, blender/food processor, Cell Lysis Solution (CLS) (100ml pure liquid detergent, 15g NaCl, 900ml distilled water), 95% Ethanol on ice, filter paper or cheesecloth, 50 ml conical test tube with cap, spooling rod, microcentrifuge tube (MCTube, test tube rack, 15 ml test tube with cap, 65°C hot water bath.

Procedures:

- a) Blend 1 cup strawberries and 30 ml water until chunky and somewhat smooth – do not overblend. Put 7ml of mixture into test tube along with 7 ml CLS and place cap on tightly. Mix until uniform color occurs. Place in hot water bath for 20 minutes.
- b) Prepare filtration apparatus using 50 ml test tube and cheesecloth. Pour strawberry/CLS mixture through cheesecloth and filter for about 10 minutes. Extract 3 ml of filtrate using pipette. Store for procedure "e."
- c) Discard the cheesecloth and cap the test tube with filtrate.
- d) Testing for presence of sugar: Using a pipette extract less than 1 ml of Strawberry filtrate and add to an open-top test tube. Add an equal amount of Benedict's Solution and heat over flame. If the solution changes from blue to green, yellow, orange, or red then sugar is present.
- e) Testing for protein: Extract less than 1ml of Strawberry filtrate. Add to a watchglass. Look for a color change from light blue to purple. The more purple-color indicated, the more protein is present in solution.
- f) Preparing for spooling the DNA/pouring ice cold ethanol: Hold the 50 ml test tube at 45° angle and add ice cold ethanol to the side of the test tube to form a layer on top of the filtrate. *Be extremely careful not to agitate the ethanol/filtrate mixture.* Keep the ethanol/strawberry filtrate layers separate by keeping the flat-bottomed test tube flat on the desk at all times.
- g) Spooling Chromosomes: Spool the DNA using technique learned in class. Remember that chromosomes are dissolved in the strawberry solution and they precipitate as they spool around the rod in the ethanol. **Take care not to mix the ethanol/strawberry extract layers when spooling chromosomes. Collect one sample of chromosome-solution and place in MCTube (for necklace). Add two drops of BBAI to MCTube to test for presence of chromosomes.
- h) Microscopic analysis of Chromosomes: For microscopic analysis, use a pipette/spooling rod and place a small drop of chromosomes-in-ethanol solution from the MCTube (with BBAI) on a microscope slide and observe.

Table 1

Test	Chemical method	Reaction Description	Positive or Negative
Presence of Protein	Biuret Solution		
Presence of Sugar	Benedict's Solution		
Presence of DNA	Bromothymol Blue (BBAI)		

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Katrin Zwirglmaier

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