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• Produces no color change with Benedict's or Seliwanoff's reagent, but turns a blue-black color with iodine reagent

E. Hydrolysis of Disaccharides and Polysaccharides

Results	Sucrose + H ₂ O	Sucrose + HCl	Starch + H ₂ O	Starch + HCl
1. Iodine test	TURNED REDDISH	NO CHANGE	TURNED BLUE	TURNED BLUE
2. Benedict's test				
3. Hydrolysis (Yes/No)				

Questions and Problems

Q6 How do the results of the Benedict's test indicate that hydrolysis of sucrose and starch occurred?

Q7 How do the results of the iodine test indicate that hydrolysis of starch occurred?

Q8 Indicate whether the following carbohydrates will give a positive (+) or a negative (-) result in each type of test listed below:

	Benedict's Test	Seliwanoff's Test	Fermentation Test	Iodine Test
Glucose				
Fructose				
Galactose				
Sucrose				
Lactose				
Maltose				
Amylose				

Disposal: All mixtures Spill/Disposal B1 (down the sink)

Procedure:

11. Before coming to lab, complete the initial concentration table below showing all work. Determine initial concentrations using the formula $M_1V_1 = M_2V_2$. Note that since we are changing temperature, concentration will be kept constant. Copy these values onto the table in the data sheet.

Run	[I ⁻] (initial)	[H ₂ O ₂] (initial)
1 (Flask 1 + beaker 1)	0.018	0.018
2 (Flask 2 + beaker 2)	0.018	$(4.5)(.050) = (4.5)(M_2)$ $.375 = 4.5 M_2$ $M_2 = \frac{.375}{4.5} = 0.018$
3 (Flask 3 + beaker 3)	0.018	0.018

12. Clean and mostly dry three Erlenmeyer flasks. Label them 1, 2 and 3.

13. Obtain a bin of chemicals for your group. Use only these chemicals for all of your runs. Use fresh pipettes for each solution. Rinse pipette twice with the solution that you will be measuring and keep this prepared pipette with the corresponding solution.

14. Add the amounts of the solutions below to prepare each flask. The chemicals must be added in the order listed (top to bottom).

	Flask #1	Flask #2	Flask #3
0.050 M KI	15.0 mL	15.0 mL	15.0 mL
1% Starch	5.0 mL	5.0 mL	5.0 mL
0.010 M Na ₂ S ₂ O ₃	2.5 mL	2.5 mL	2.5 mL
1 M H ₂ SO ₄	5.0 mL	5.0 mL	5.0 mL

Report Sheet

Carbohydrates

Results of Carbohydrate Tests

	D. Benedict's Test	E. Seliwanoff's Test	F. Fermentation Test	G. Iodine Test
Glucose				
Fructose				
Sucrose				
Lactose				
Starch				
Water				

Questions and Problems

Q.6 From the results above, list the sugars that are reducing sugars and those that are not.

Reducing sugars

Nonreducing sugars

Q.7 What sugars are ketoses?

Q.8 What sugars give a positive fermentation test?

Q.9 Which carbohydrates give a blue-black color in the iodine test?



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