

Protein Worksheet

Data Table

Volume of middle layer recovered (mL)	
Volume of ethyl alcohol added to the middle layer (mL)	
Result of Benedict's test for control tube	+ or -
Result of Benedict's test for sucrase tube	+ or -

Post-Lab Questions

1. Draw a picture and describe the contents of each layer after each of the three centrifuge separations.

2. Biuret test solution is used to test for proteins. Why was Benedict's solution used instead of biuret test solution to confirm the identity of sucrase obtained in this experiment?

3. Sucrase is not made properly in people with a rare genetic disorder called Congenital Sucrase-Isomaltase Deficiency (CSID). Affected people often take sucrase supplements. Why is this necessary?