

Membrane Properties Worksheet

Data Table

Solution	Absorbance
Distilled water	
Ethyl alcohol, 10%	
Ethyl alcohol, 20%	
Ethyl alcohol, 30%	
Ethyl alcohol, 40%	
n-propyl alcohol, 20%	
Unknown	

Post-Lab Questions

1. Describe the qualitative and quantitative	evidence that the beet mem	brane has been da	amaged by alcohol.
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3	β.	Create a grap	h comparing	the absor	bance versus	concentration of	f eth	vl alcol	nol so.	lution
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- 4. Based upon the curve created in the graph and the absorbance of the unknown, predict the concentration of ethyl alcohol in the unknown solution.
- 5. Compare the absorbance of the 20% ethyl alcohol beet solution (a two-carbon molecule) to the 20% *n*-propyl alcohol (a three-carbon molecule). Suggest a possible explanation for the different results and what tests could be done to confirm this hypothesis.
- 6. Design an experiment for testing the properties of the cell membrane using another variable.