

Zedua Experiments

Title: simple osmometer

Challenge: Can you make a simple osmometer?

What is Osmometer?

Osmometer is an instrument for demonstrating for measuring osmotic pressure.

What is Osmotic pressure?

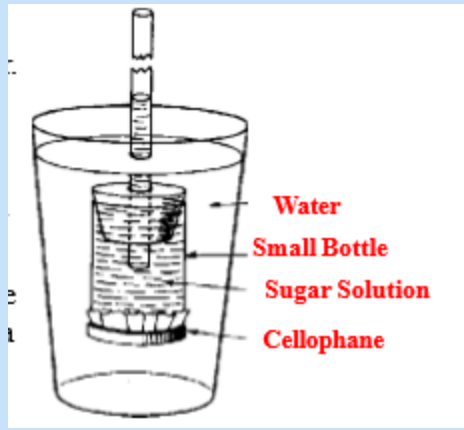
Osmotic pressure is Pressure that would have to be applied to a pure solvent to prevent it from passing into a given solution by osmosis, often used to express the concentration into a given solution.

Materials Required:

1. Small glass bottle
2. One-Hole Stopper
3. 50 cm Length glass tube or 2 transparent straws
4. Cellphone tape
5. Sugar solution

Procedure:

1. Take a small glass bottle and remove the bottom about 2.5 cm in diameter.
2. Place a one-hole stopper tightly into the bottom and insert a 50 cm length of glass tubing or two soda straws through the hole(2.5cms).
3. Attach a small piece of cellophane or parchment paper over the other end of the bottle and fasten it securely by winding with several turns of string or strong thread.
4. Fill the bottle with a very concentrated sugar solution.
5. Replace the one-hole stopper so that no air bubbles remain inside the bottle.
6. Put the osmometer in a glass of water and rest it for a few hours.



Source: Science for kids

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