

Osmotic pressure project

Questions

1. What is the osmotic pressure of each of the following solutions?
2. Which of the following solutions of [saline](#) would you use to make [erythrocyte "ghosts,"](#) and why? Please explain your choices.
3. Which would you use to [wash erythrocytes](#) – that is, collect them, remove clotting factors, and ensure that cells remain viable? A kind of ‘cell washing’ also occurs during [dialysis](#).
4. Which solution would cause cells to crenate? What are other causes of crenation?

Solution A: 2% NaCl

Solution B: 0.154 M NaCl

Solution C: 30 mM NaCl

Solution D: seawater

Notes

The concentration of the inside of a RBC is very close to the concentration achieved by dissolving 9 g NaCl in a liter of pure water.

Assume 37°C