

Osmosis and Tonicity

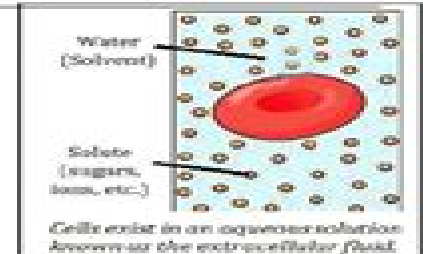
All cells are surrounded by a solution called the **extracellular fluid**. Cells obtain the nutrients/water they need from this fluid, and also expel their waste into it.

The extracellular fluid is an **aqueous solution**

- Water is the solvent
- Sugars (glucose), gases (O_2 , CO_2), and ions (Na^+ , Cl^-) are common solutes

The movement of many of these solutes is actively controlled/regulated by the cell.

The movement of the solvent, water, is **NOT** regulated. Water moves freely across a cell membrane via **osmosis**.



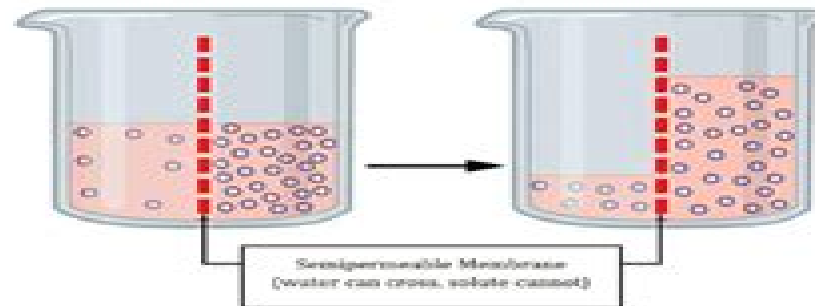
This video explains osmosis very clearly. I highly recommend watching it.

<http://tinyurl.com/q8aggr2>

Osmosis

Osmosis is the diffusion of water across a semipermeable membrane **from an area of low solute concentration to an area of high solute concentration**

- The water always moves towards the area of higher solute concentration, until the concentrations on both sides of the membrane are equal.
- Once the concentration is balanced on both sides, there is no net movement of water. The water is crossing the membrane in both directions at an equal rate. This is known as a **dynamic equilibrium**.



Tonicity compares the relative concentration of the intracellular fluid (solution inside the cell) and extracellular fluid (solution outside of the cell).

- Comparing the inside/outside concentrations allows us to predict whether water will move into the cell, out of the cell, or remain in a dynamic equilibrium.

Tonicity And Osmosis Answer Key

Princeton Review



Tonicity And Osmosis Answer Key:

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