

Water Potential (Ψ)

$$\Psi = \Psi_p + \Psi_s$$

Ψ_p = pressure potential

$$\Psi_s = \text{solute potential (negative)}$$

The water potential will be equal to the solute potential of a solution in an open container because the pressure potential of the solution in an open container is zero.

The Solute Potential of a Solution

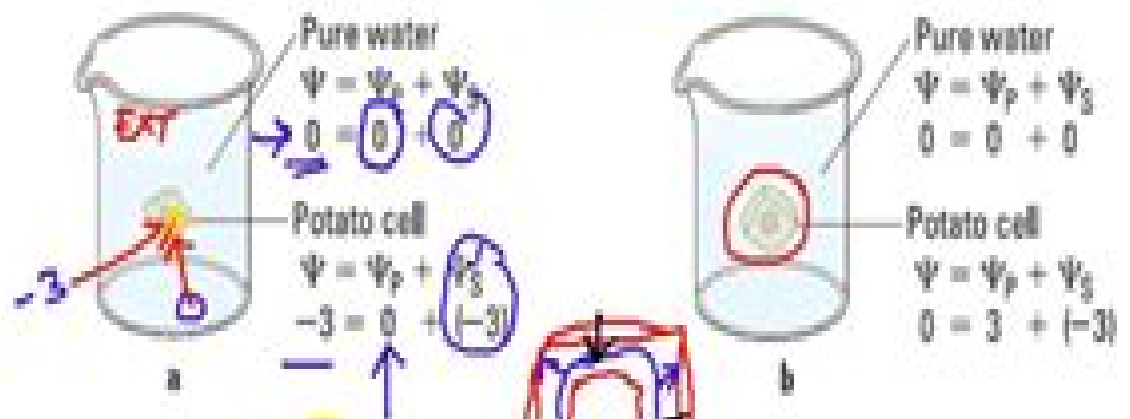
$$\Psi_s = -iCRT$$

i = ionization constant (this is 1.0 for sucrose because sucrose does not ionize in water)

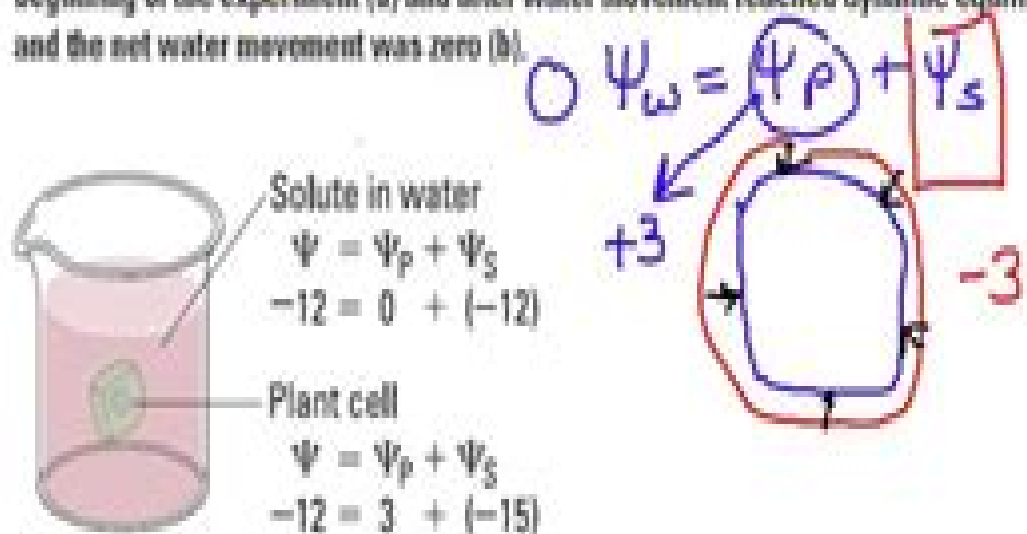
C = molar concentration

R = pressure constant ($R = 0.0831$ liter

$\uparrow \Psi \rightarrow \downarrow \Psi$ } OSMOSIS - DIFFUSION



Figures 1a-b. Plant cell in pure water. The water potential was calculated at the beginning of the experiment (a) and after water movement reached dynamic equilibrium and the net water movement was zero (b).



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