

(17a) A student has a glass of water.

What is the solute potential? (include units!) 0 bar

What is the pressure potential? (include units!) 0 bar (at constant)

What is the water potential? (include units!) 0 bar

(17b) Next, the student pours a lot of salt into the glass of water. *as salt concentration ↑, C ↑ so Ψ_s becomes a bigger negative number*

What happens to the solute potential? It decreases (increases/decreases/stays the same)
Remember: $\Psi_s = -CRT$

What happens to pressure potential? It stays the same (increases/decreases/stays the same)

What happens to the water potential? It decreases (increases/decreases/stays the same)

(17c) Finally, the student takes a piece of celery and places it into the glass of saltwater.


The celery is hypotonic (hypertonic/isotonic/hypotonic) to the saltwater.

The celery has low (higher/equal/lower) water potential than the saltwater.

The saltwater has low (higher/equal/lower) water potential than the celery.

Water moves from areas of high (high/low) water potential to low (high/low) water potential

Therefore, water moves out of (into/out of) the celery cells and the celery cells plasmolyze

BEFORE:


(18) You mean neighbor pours a salt solution on a poor, innocent slug! Drag a diagram and label highs and lows!


The salt solution is hypertonic (hypertonic, isotonic, hypotonic) to the slug cells.

The slug cells are hypotonic (hypertonic, isotonic, hypotonic) to the salt solution.

Water EXIT (enters/exits) the slug cells.

Though Na^+ & Cl^- may want to enter (enter/exit) the slug cells, they cannot because they are charged.


The slug cells shrink (shivel/lyse)

BEFORE:


(19) Rock salt used to be used on highways during winter to help with traction and to lower the freezing point of water (which minimizes ice reformation). However, plants on the sides of roads were dying. Now, often, sand is used as an alternative.

The rock salt solution is hypertonic (hypertonic / isotonic / hypotonic) to the plant cells.

What phenomenon occurred to the plant cells after adding the rock salt? plasmolysis

BEFORE:


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