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WebHypotonic means that the cell's environment contains a lower concentration of NaCl than the cell itself has. In other words, the cell's environment has a NaCl concentration less than 0.85%. If cells are placed in a hypotonic solution, there will be a net movement of water (osmosis) into the cell.

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Web• Isotonic = a solution of equal concentration to a cell. • Hypotonic = a solution of lower concentration than a cell (higher water potential) • Hypertonic = a solution of higher concentration than a cell (lower water potential) Note: Using these terms always involve comparison between 2 different solution!

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WebA solution with low osmotic pressure than body fluids is known as hypotonic solution. The effects of administering a hypotonic solution are generally more severe than with hypertonic solutions, since ruptured cells can never be repaired. Hypertonic solutions show the opposite effect when compared to hypertonic

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Webhypotonic if the blood is mixed with 0.2% NaCl solution or with distilled water, water enters the blood cells, causing them to swell and finally burst, with the liberation of hemoglobin. The salt solution in this instance is said to be with respect to the blood cell contents. Finally, This phenomenon is known as hemolysis . Isosmotic solutions

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Websolution and a second solution that will favor the movement of water out of the initial solution. In the example to the left, solute was added to the solution on the left side of the membrane. This decreased the chances that water would move out of the solution to the left of the membrane and into a solution to the right of the membrane. This means

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WebA hypotonic solution has a smaller concentration than a cell. An isotonic solution has the same concentration as a cell. When water flows out of a cell the cell shrinks and becomes wrinkled which is called crenation. To avoid crenation salt-water fish constantly drink water and excrete the salt.

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WebSome spreading effect of hypotonic solution as a by product of other investigations. 2. They did not exploit the finding and publicize it by testing it on a variety of materials and publishing papers specifically dealing with the virtues of the technique. 3. Many scientists like to see techniques handed to them on a silver platter.

[Lecturio.comhttps://www.lecturio.com/magazine/dehydration/?print=pdf](https://www.lecturio.com/magazine/dehydration/?print=pdf)

WebIf water loss is accompanied by excessive sodium loss, then the serum sodium concentration decreases, resulting in hyponatremic (or hypotonic) dehydration. If water and sodium are lost at the same rate, then the serum sodium concentration remains the same. This is called isonatremic (or isotonic) dehydration.

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Webconcentration of solution through a permeable membrane (d) Movement of solute molecules from lower concentration to higher concentration of solution through a semipermeable membrane 7. Plasmolysis in a plant cell is defined as (a) break down (lysis ) of plasma membrane in hypotonic medium (b) shrinkage of cytoplasm in hypertonic ...

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WebHypotonic Solution: is a solution of lower osmotic pressure than that of a body fluid. Hypertonic solutions: the solutions having a higher osmotic pressure than that of a body fluid. (c) Shrinking is caused by water movement out of a cell in a hypertonic solution.

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WebThe Hydrating Effects of Hypertonic, Isotonic and Hypotonic Sports Drinks and Waters on Central Hydration During Continuous Exercise: A Systematic Meta-Analysis and Perspective David S. Rowlands1 · Brigitte Hani Kopetschny1 · Claire E. Badenhorst1 Accepted: 1 September 2021 / Published online: 30 October 2021 © The Author(s) 2021

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WebHypotonic Hypo: "under/beneath" Tonic: concentration of a solution The cell has a low amount of solute extracellularly and it wants to shift inside the cell to get everything back to normal via osmosis. This will cause CELL SWELLING which can cause the cell to burst or lyses. Hypotonic solutions 0.45% Saline (1/2 NS) 0.225% Saline (1/4 NS)

**mathcentre.ac.uk**<https://www.mathcentre.ac.uk/resources/uploaded/...>

WebA hypotonic solution can be made isotonic by adding an adjusting substance, usually sodium chloride; the exact amount of this substance to add is to be calculated. The basic formula used to do this is  $W = 0.52 - a/b$  where W=Weight of the added substance (g/100ml); a=Freezing point depression of the unadjusted hypotonic solution;

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WebHEILBRUNN and WILSON (1955 a) were interested in studying the initiation of cell division in the egg of Chaetopterus in an attempt to interpret the action of various parthenogenetic agents in terms of the effect they might have on the protoplasmic viscosity.

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WebCells hypotonic to their surrounding solutions cause water to move out of the cell and cause it to shrink. The cell has a smaller number of solutes than the solution outside of the cell membrane. This process can be seen when a plant wilts. In animal cells, the membranes lose shape and support, shrivel up, and die.

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WebThe terms hypertonic, hypotonic, and isotonic are used to describe solutions separated by selectively permeable membranes. A hypertonic solution has a higher solute concentration and a lower water potential as compared to the other solution; therefore, water will move into the hypertonic solution through the membrane. A hypotonic

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Webhypotonic PMS in reducing the risk of hyponatremia. Though the superiority of isotonic PMS in lowering the dangers of hyponatremia has been reported repeatedly in medical literature, [3, 10, 11] yet hypotonic solutions remain the predominant choice for hospitalized children in many countries [13, 14]. This is because

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WebDec 10, 2012 · The guideline covers hypotonic hyponatremia in adults. A threshold of 48 hours is used to distinguish acute from chronic hyponatremia. The initial diagnostic step is establishing that the hyponatremia is hypotonic and whether acute or severe symptoms are present; in that case, the clinician should consider