

Definition Of Hypotonic Solution

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Definition Of Hypotonic Solution

A hypotonic solution is a solution that has a lower solute concentration compared to another solution. A solution cannot be hypotonic, isotonic or hypertonic without a solution for comparison. Hypotonic is a description of the solute content of one solution in relation to another solution. It is used in biology to help scientist describe cells.

Hypotonic Solution - Definition & Examples | Biology ...

Hypotonic solution: A solution that contains fewer dissolved particles (such as salt and other electrolytes) than is found in normal cells and blood. Hypotonic solutions are commonly used to give fluids intravenously to hospitalized patients in order to treat or avoid dehydration.

Definition of Hypotonic solution

hypotonic solution A solution having an osmotic pressure less than that of cells or body fluids; a solution that will cause water

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to enter cells, thus inducing swelling and possibly lysis.

Hypotonic solution | definition of hypotonic solution by ...

A hypotonic solution means something that has a lower solute concentration in comparison to another solution. A solution is not hypotonic, isotonic or hypertonic if there is no solution for comparison. It helps scientists to describe cells.

Hypotonic Solution - Definition and Examples, Types

A hypotonic solution is any solution that has a lower osmotic pressure than another solution. In the biological fields, this generally refers to a solution that has less solute and more water than...

Hypotonic Solution: Definition, Example & Diagram - Video ...

Therefore, a Hypotonic Solution is a solution that contains less solute than blood normally contains. The solute will include various electrolytes, proteins, dissolved blood gases, etc. (Want a quick refresher on the difference between solute, solvent, and solutions?) What happens when you administer a Hypotonic Solution?

Hypotonic Solution: Clearly Explained for Nursing Students ...

A hypotonic solution is a solution that contains less solute than the cell which is placed in it. If a cell with a NaCl concentration is placed in a solution of distilled water, which is pure water with no dissolved substances it, the solution on the outside of the cell is 100% water and 0% NaCl.

Isotonic, Hypertonic, and Hypotonic Solutions

Hypotonic solutions are the complete opposite of hypertonic solutions. Cells often have a water concentration that is lower than outside of the cell. Following this, the solutes outside of the cell are less than the solutes within the cell.

Understanding Hypotonic, Hypertonic, and Isotonic Solutions

Hypertonic, isotonic, and hypotonic solutions and their effect on

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cells. Google Classroom Facebook Twitter. Email. Mechanisms of transport: tonicity and osmoregulation. Diffusion and osmosis. Osmosis. Hypotonic, isotonic, and hypertonic solutions (tonicity) Osmosis and tonicity. This is the currently selected item.

Tonicity: hypertonic, isotonic & hypotonic solutions ...

Hypotonic solutions are used when the cell is dehydrated and fluids need to be put back intracellularly. This happens when patients develop diabetic ketoacidosis (DKA) or hyperosmolar hyperglycemia. Important: Watch out for depleting the circulatory system of fluid since you are trying to push extracellular fluid into the cell to re-hydrate it.

Isotonic, Hypotonic & Hypertonic IV Fluid Solution

1. (Pathology) (of muscles) lacking normal tone or tension 2. (Chemistry) (of a solution) having a lower osmotic pressure than that of a specified, generally physiological, solution.

Hypotonic solution - definition of Hypotonic solution by ...

A hypertonic solution contains a higher concentration of solutes compared to another solution. The opposite solution with a lower concentration is known as the hypotonic solution. Scientists must describe cell contents compared to the environment. If a cell is placed in a hypertonic solution, the cell is considered hypotonic.

Hypertonic Solution - Definition and Examples | Biology ...

A hypertonic solution is one which has a higher solute concentration than another solution. An example of a hypertonic solution is the interior of a red blood cell compared with the solute concentration of fresh water.

What Is a Hypertonic Solution? - ThoughtCo

A hypotonic solution is one in which the concentration of solutes is greater inside the cell than outside of it, and a hypertonic solution is one where the concentration of solutes is greater...

Hypertonic Solution: Definition, Effect & Example - Video

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Hypotonic definition is - having deficient tone or tension. How to use hypotonic in a sentence.

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Hypotonic | Definition of Hypotonic by Merriam-Webster

Hypotonic solutions have a lower concentration of electrolytes than plasma. When a hypotonic solution is administered intravenously, fluid shifts out of the bloodstream to the area of higher concentration in the interstitial and intracellular spaces. A common example of a hypotonic solution is 0.45% normal saline (half normal saline).

Isotonic, Hypotonic, and Hypertonic Solutions

hypotonic in British English. (,haɪpə'tɒnɪk) adjective. 1. (of muscles) lacking normal tone or tension. 2. (of a solution) having a lower osmotic pressure than that of a specified, generally physiological, solution. Compare hypertonic, isotonic.

Hypotonic definition and meaning | Collins English Dictionary

A red blood cell in a hypotonic solution, causing water to move into the cell. A hypotonic solution has a lower concentration of solutes than another solution. In biology, a solution outside of a cell is called hypotonic if it has a lower concentration of solutes relative to the cytosol.

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