

Hypotonic Solution Definition Biology

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Hypotonic Solution Definition Biology

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. Definition. noun. A solution that has lower osmotic pressure (or has less solutes) than another solution to which it is compared. Supplement. The tonicity of a solution pertains to the osmotic pressure or tension of a solution, as in the cells would swell or shrink depending on the tonicity of the environment.

Hypotonic solution Definition and Examples - Biology ...

Definition. adjective. (1) Having a lesser degree of tone, tension or tonicity. (2) Having a lesser osmotic pressure in a fluid compared to another fluid. Supplement. Hypotonic is a descriptive word relating to hypotonicity. In cellular level,

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hypotonicity may pertain to a property of a solution with a comparatively lower concentration of solutes relative to the amount of solutes in another solution.

Hypotonic Definition and Examples - Biology Online Dictionary

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 and Solution » Micro B Life

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

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. CONTINUE SCROLLING OR CLICK HERE FOR RELATED SLIDESHOW

Definition of Hypotonic solution - medicinenet.com

In more simpler terms, hypotonic can mean a solution that has a lower concentration of solutes than other solutions, made of the same solutes. Examples of Hypotonic Building Your Triceps

Hypotonic - Definition and Examples | Biology Dictionary

In a hypotonic solution, the solute concentration is lower than inside the cell. The prefix hypo means under or below in Latin. Under these conditions, the osmotic pressure gradient forces water into the cell. Depending on the amount of water that enters, the cell may look enlarged or bloated.

What Happens to a Cell in a Hypotonic Solution | Biology

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In an isotonic solution— iso means the same—the extracellular fluid has the same osmolarity as the cell, and there will be no net movement of water into or out of the cell. Hypotonic, hypertonic, and isotonic are relative terms. That is, they describe how one solution compares to another in terms of osmolarity.

Tonicity: hypertonic, isotonic & hypotonic solutions ...

Hypotonic Solution. A hypotonic solution has a lower solute concentration than inside the cell (the prefix hypo is Latin for under or below). The difference in concentration between the compartments causes water to enter the cell. Plant cells can tolerate this situation better than animal cells.

Isotonic vs. Hypotonic vs. Hypertonic Solution | Biology

Hypertonic Solution Definition. 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 ...

In these arenas, hypotonic refers to a solution's having less osmotic pressure, or concentration, than another solution between a semi-permeable membrane. In more simpler terms, hypotonic can mean a solution that has a lower concentration of solutes than other solutions, made of the same solutes.

Hypotonic: Definition and Example » Micro B Life

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. Due to osmotic pressure, water diffuses into the cell, and the cell often appears turgid, or bloated.

Tonicity - Wikipedia

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

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solute concentration of fresh water.

What Is a Hypertonic Solution? - ThoughtCo

In a hypotonic solution the total molar concentration of all dissolved solute particles is less than that of another solution or less than that of a cell. If concentrations of dissolved solutes are less outside the cell than inside, the concentration of water outside is correspondingly greater.

Pearson - The Biology Place

Hypotonic Solutions More solutes inside of the cell than outside of the cell, those with lower solute concentrations and higher water concentrations; cells placed in these solutions gain water; and if they lack a cell wall, may burst

Isotonic, Hypotonic, and Hypertonic Flashcards | Quizlet

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Definition of hypotonic solution isotonic solution and ...

A solution that has higher osmotic pressure (or has more solutes) than another solution to which it is compared.

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