

Define Isotonic Solution

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Define Isotonic Solution

Isotonic Solution Isotonic Solution Definition. An isotonic solution is one that has the same osmolarity, or solute concentration, as... Examples of Isotonic Solution. When the plasma surrounding blood cells is an isotonic solution, compared to the solution... Related Biology Terms. Hypotonic - When ...

Isotonic Solution - Definition and Examples | Biology ...

Isotonic solution: A solution that has the same salt concentration as cells and blood. Isotonic solutions are commonly used as intravenously infused fluids in hospitalized patients.

Definition of Isotonic solution - MedicineNet

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isotonic solution A solution that has a concentration of electrolytes, nonelectrolytes, or both that will exert osmotic pressure equivalent to that of the solution with which it is being compared.

Isotonic solution | definition of isotonic solution by ...

An isotonic solution is one that has the same osmolarity, or solute concentration, as another solution. If these two solutions are separated by a semipermeable membrane, water will flow in equal parts out of each solution and into the other. The effect is zero water flow between the two solutions, although water is moving both ways.

Definition Of Isotonic Solution - The General Info

An isotonic solution is when two solutions, separated by a semipermeable membrane, have equal concentrations of solutes and water. Imagine you're at a party and there are an equal number of guests...

Isotonic Solution: Definition & Example - Video & Lesson ...

Isotonic Solutions Isotonic solutions contain an electrolyte balance similar to plasma in the bloodstream. When an isotonic solution is administered, the fluid volume of the patient is increased without a fluid shift. Common examples of isotonic solutions are 0.9% normal saline and lactated ringers.

Isotonic, Hypotonic, and Hypertonic Solutions

noting or pertaining to a solution containing the same salt concentration as mammalian blood.
noting or pertaining to a muscular contraction in which constant tension continues while the length of the muscle decreases, as during mechanical work. Music. of or characterized by equal tones.

Isotonic | Definition of Isotonic at Dictionary.com

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In cellular level, isotonicity may pertain to a property of a solution in which its solute concentration is the same as the solute concentration of another solution with which it is compared. Thus, a solution is described as isotonic when the other solution being compared with have the same (or equal) osmotic pressure and same water potential since the two solutions have an equal concentration of water molecules.

Isotonic Definition and Examples - Biology Online Dictionary

Isotonic Solution A cell in an isotonic solution is in equilibrium with its surroundings, meaning the solute concentrations inside and outside are the same (iso means equal in Latin). In this state there is no concentration gradient and therefore, no large movement of water in or out.

Isotonic vs. Hypotonic vs. Hypertonic Solution | Biology

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 ...

Isotonic solutions are solutions having equal osmotic pressures. This is due to the equal concentrations of solutes they have. Isotonic solutions have the same amount of solutes per unit volume of solution and the same amount of water.

Difference Between Isotonic Hypotonic and Hypertonic ...

Ringer solution, Ringer's solution - an aqueous solution containing the chlorides of sodium and potassium and calcium that is isotonic to animal tissues; used to correct dehydration and (in physiological experiments) as a medium for in vitro preparations saline, saline solution - an isotonic

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solution of sodium chloride and distilled water

Isotonic solution - definition of isotonic solution by The ...

isotonic Of a fluid that exerts the same OSMOTIC PRESSURE as another, especially as that of the body fluids. Body cells, such as red blood cells, can be immersed in an isotonic solution without being caused to change shape. 'Normal' saline is isotonic with blood.

Isotonic saline | definition of isotonic saline by Medical ...

Isotonic solution: A solution that has the same salt concentration as cells and blood. Isotonic solutions are commonly used as intravenously infused fluids in hospitalized patients.

Definition of Isotonic solution - RxList

When the concentration of salts (ions) is the same inside the blood cell as outside of it, the solution is isotonic with respect to the cells, and they assume their normal shape and size. If there are fewer solutes outside the cell than inside it, such as would happen if you placed red blood cells in fresh water, the solution (water) is hypotonic with respect to the interior of the red blood cells.

What Is a Hypertonic Solution? - ThoughtCo

Dictionary > Isotonic solution. Isotonic solution. Play. Isotonic solution One that has the same salt concentration as cells and blood. You will also like... Movement of Molecules Across Cell Membranes. Molecules move within the cell or from one cell to another through different strategies. Transport may be in the form of simple diffusion ...

Isotonic solution Definition and Examples - Biology Online ...

In an isotonic solution, the extracellular fluid has the same osmolarity as the cell. If the osmolarity of the cell matches that of the extracellular fluid, there will be no net movement of water into or out

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of the cell, although water will still move in and out.

3.3C: Tonicity - Medicine LibreTexts

Having the same concentration of solutes as the blood: an isotonic saline solution. 4. Physiology Of or involving muscular contraction in which the muscle remains under relatively constant tension while its length changes. [iso- + Greek tonos, tension; see tone + -ic.]

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