

Isotonic Solution Definition

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Isotonic Solution Definition 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. 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 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 solution of sodium chloride and distilled water Isotonic solution - definition of isotonic solution by The ... Isotonic is a solution consisting of a similar salt concentration as the cells and the blood. We use it commonly as intravenously infused fluids for patients. It is a solution where two solutions that are thrown apart by a semipermeable membrane have an equal concentration of the solute and the water as well. Isotonic Solutions - Definition and Examples, Importance 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, hypertonic, hypotonic solutions. Terms isotonic, hypertonic and hypotonic are usually used when a reference to cell of a living organism is made, but it can be generally used to compare concentration of a solute in two solutions. Isotonic solutions. Isotonic solutions are two solutions that have the same concentration of a solute. Isotonic hypertonic hypotonic solutions and definition in ... physiol (of two or more muscles) having equal tension. (of a drink) designed to replace the fluid and salts lost from the body during strenuous exercise. Also: isosmotic (of two solutions) having the same osmotic pressure, commonly having physiological osmotic pressure Compare hypertonic, hypotonic. Isotonic | Definition of Isotonic at Dictionary.com Isotonic is a term used to describe solutions and chemistry and, sometimes, muscles in human biology. In chemistry, a solution is said to be isotonic when it has the same concentration of solutes as another solution across a semipermeable membrane. The use of isotonic in human anatomy is used more rarely. Isotonic - Definition and Examples | Biology Dictionary 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 ... Tonic: concentration of a solution. The cell has the same concentration on the inside and outside which in normal conditions the cell's intracellular and extracellular are both isotonic. It is important to be familiar with what fluids are isotonic and when they are given. Isotonic fluids. 0.9% Saline Isotonic, Hypotonic & Hypertonic IV Fluid Solution 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 ... Isotonic is a descriptive word relating to isotonicity. 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. Isotonic Definition and Examples - Biology Online Dictionary 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 | definition of isotonic by Medical dictionary Isotonic Solution An isotonic solution is a solution in which the same amount of solute and solution is available inside of the cell and outside of the cell. The solution and solute percentage are the same inside the cell as it is in the solution outside of the cell. Isotonic, Hypertonic, and Hypotonic

Solutions Hypotonic Solution An isotonic solution is one that has the same concentration of solutes both inside and outside the cell. A hypertonic solution is one that has a higher solute concentration outside the cell than inside. A hypotonic solution is the one that has a higher solute concentration inside the cell than outside. What Is Osmosis? - Definition, Types, Osmotic Pressure Isotonic and Buffer Solutions It is generally accepted that for ophthalmic and parenteral administration, isotonic solutions are better tolerated by the patient than those at the extremes of hypo- and hypertonicity. Most ophthalmic preparations are formulated to be isotonic. Isotonic and Buffer Solutions Isotonic Solutions solutions with the same osmotic pressure; in biology and medicine, natural or artificially prepared solutions with the same osmotic pressure as that of the content of animal and plant cells, blood, and interstitial fluids.

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