

Define Isotonic Solution

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Isotonic | Definition of Isotonic at Dictionary.com

Definition adjective Having equal tension or tonicity Supplement 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. Thus, a solution is described as isotonic when the other solution being compared ...

Isotonic vs. Hypotonic vs. Hypertonic Solution | Biology

The hypotonic, isotonic and hypertonic solutions they are ways of naming homogeneous mixtures formed by a solute that can be classified as crystalloids and colloids (Thomas Graham, 1861). They have the ability to dissolve in a solvent such as water (H₂O), considered the universal solvent.. In the group of crystalloids Graham selected those that have a good ability to dissociate in water and ...

Define Isotonic Solution

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 - definition of isotonic by The Free Dictionary

In 2003, Moritz et al recommend that isotonic fluids (D5W0.9%NS or 0.9%NS) should be used as maintenance intravenous fluid for prevention of hyponatremia in hospitalized children.⁴ Recently, a multicenter prospective randomized study demonstrated that use of isotonic solution as a maintenance fluid in critically ill children decreased the frequency of hospital-acquired hyponatremia.⁵ This and ...

Isotonic solution | definition of isotonic solution by ...

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.

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.

Hypotonic, Isotonic and Hypertonic Solutions (With ...

Isotonic, hypotonic, and hypertonic solutions are widely used in the healthcare setting and as a nurse you must know how each of the solutions work on the body and why they are given. In nursing school and on the NCLEX exam , you will be required to know what type of IV fluids are considered isotonic, hypotonic, and hypertonic.

Isotonic Solutions - Definition and Examples, Importance

Define isotonic solution. isotonic solution synonyms, isotonic solution pronunciation, isotonic solution translation, English dictionary definition of isotonic solution. Noun 1. isotonic solution - a solution having the same osmotic pressure as blood isosmotic solution solution ...

Difference Between Isotonic Hypotonic and Hypertonic ...

isotonic solution: [so-loo´shun] 1. a homogeneous mixture of one or more substances (solutes) dispersed molecularly in a sufficient quantity of dissolving medium (solvent). 2. in pharmacology, a liquid preparation of one or more soluble chemical substances, which are usually dissolved in water. For names of specific solutions, see under the ...

Isotonic Definition and Examples - Biology Online Dictionary

Define isotonic. isotonic synonyms, isotonic pronunciation, isotonic translation, English dictionary definition of isotonic. adj. 1. Of equal tension. 2. Isosmotic. 3. Having the same concentration of solutes as the blood: an isotonic saline solution. 4. Physiology Of or involving... Isotonic - definition of isotonic by The Free Dictionary.

Tonicity: hypertonic, isotonic & hypotonic solutions ...

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.

Definition Of Isotonic Solution - The General Info

Isotonic definition, noting or pertaining to solutions characterized by equal osmotic pressure. See more.

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

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.

Isotonic hypertonic hypotonic solutions and definition in ...

Hypertonic, isotonic, and hypotonic solutions and their effect on cells. Osmosis and tonicity. Hypertonic, isotonic, and hypotonic solutions and their effect on cells. If you're seeing this message, it means we're having trouble loading external resources on our website.

Definition of Isotonic solution - MedicineNet

An isotonic solution refers to two solutions having the same osmotic pressure across a semipermeable membrane. This state allows for the free movement of water across the membrane without changing ...

Isotonic, Hypotonic & Hypertonic IV Fluid Solution

For warm-blooded animals, a 0.9 percent solution of NaCl and a 4.5 percent solution of glucose are isotonic. Isotonic solutions that are close in

composition, pH, buffering capacity, and other properties to blood serum are called physiological solutions (Ringer's solution for cold-blooded animals; Ringer-Locke's and Ringer-Tyrode's solutions for warm-blooded animals).

Isotonic Solutions | Article about Isotonic Solutions by ...

Main Difference - Isotonic vs Hypotonic vs Hypertonic. A solution is a homogeneous liquid mixture of two or more components. A solution is made by dissolving a solute in a solvent. There are three types of solutions grouped based on their concentrations.

Isotonic Solution - Definition and Examples | Biology ...

Isotonic. Firstly, isotonic is a kind of solution that consists of the same salt concentration as the cells and the blood. We use these solutions commonly as intravenously infused fluids in the patients admitted in the hospitals. Isotonic Solution Definition. We use this term for describing solutions, chemistry, and muscles a few times in human ...