

Define Isotonic Solution

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Define Isotonic Solution

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 and Examples | Biology ...

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 the concentration of solutes on either side. Isotonic Solution: Definition & Example.

Isotonic Solution: Definition & Example - Study.com

Medical Definition of Isotonic solution. 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. CONTINUE SCROLLING OR CLICK HERE FOR RELATED ARTICLE. Last Editorial Review: 5/13/2016.

Definition of Isotonic solution - MedicineNet

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 solution - a solution having the same osmotic pressure as blood. isosmotic solution. solution - a homogeneous mixture of two or more substances; frequently (but not necessarily) a liquid solution; "he used a solution of peroxide and water".

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

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 ...

isotonic solution one having an osmotic pressure the same as that of a standard of reference. molar solution a solution in which each liter contains 1 mole of the dissolved substance; designated 1 M. The concentration of other solutions may be expressed in relation to that of molar solutions as tenth-molar (0.1 M), etc.

Isotonic solution | definition of isotonic solution by ...

Definition of isotonic. 1 : of, relating to, or being muscular contraction in the absence of significant resistance, with marked shortening of muscle fibers, and without great increase in muscle tone — compare isometric. 2 : isosmotic —used of solutions. —.

Isotonic | Definition of Isotonic by Merriam-Webster

Having equal tension; denoting solutions possessing the same osmotic pressure; specifically, limited to solutions in which cells neither swell nor shrink. Thus, a solution that is isosmotic with intracellular fluid will not be isotonic if it includes solute, such as urea, that freely permeates cell membranes.

Isotonic | definition of isotonic by Medical dictionary

A solution is isotonic when its effective osmole concentration is the same as that of another solution. In biology, the solutions on either side of a cell membrane are isotonic if the concentration of solutes outside the cell is equal to the concentration of solutes inside the cell.

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