Isotonic Solution Definition Biology

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Isotonic Solution Definition Biology
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 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
Isotonic solution in the largest biology dictionary online. Free learning resources for students covering all major areas of biology.

Isotonic solution Definition and Examples - Biology Online ...
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 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.

Definition Of Isotonic Solution - The General Info
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
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 Solution: Definition & Example - Video & Lesson ...
Isotonic Solution An isotonic solution (for example, the ECF) has the same osmotic pressure as the ICF. Under these conditions, water passes back and forth across the semipermeable membrane to keep the cell in equilibrium with the surroundings.

What Happens to a Cell in an Isotonic Solution | Biology ...
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
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. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked.

Tonicity: hypertonic, isotonic & hypotonic solutions ...
Types of Isotonic IV Solutions IV solutions consist of water and various amounts of dissolved ions such as sodium (Na +), chloride (Cl –), potassium (K +), magnesium (Mg 2+), calcium (Ca 2+), buffers, and other components. The solution the patient receives depends on their medical condition.

Isotonic IV Solutions | Biology Dictionary
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
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 (Biology) - Definition - Online Encyclopedia**
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.

Tonicity - Wikipedia
There are three types of solutions determined based on tonicity: (1) hypotonic solution, (2) hypertonic solution, and (3) isotonic solution. In hypotonic solution, the osmotic pressure is lower than the solution being compared to. The solutes in a hypotonic solution are also less (in concentration) than another solution.

Hypotonic solution Definition and Examples - Biology ...
An isotonic solution is a solution wherein the amount of solutes is basically the same as the number of solutes of another solution. For instance, a cell that is isotonic to the outside solution means that both the cell’s intracellular fluid and the surrounding fluid will have equal osmotic pressure and the same water potential.

Osmosis - Definition and Examples - Biology Online Dictionary
contain a higher solute concentration than is present in cells.when cells are exposed to these solutions water leaves the cell, causing the cells to shrink OTHER SETS BY THIS CREATOR Endocytosis and Exocytosis 5 Terms

Isotonic, Hypotonic, and Hypertonic Flashcards | Quizlet
Isotonic Solution If you place a cell in an isotonic solution (in relation to the cell), the concentration of solutes is even, meaning that water can move into and out of the cell at an equal rate. Osmosis will occur, but at a balanced pace, meaning that the cell won’t swell or shrink.