

## ***Isotonic Solution***

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**Isotonic Solution**

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**

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**

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 ...**

Isotonic, Hypotonic & Hypertonic IV Fluid Solution NCLEX Review Notes 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.

**Isotonic, Hypotonic & Hypertonic IV Fluid Solution**

Depiction of a red blood cell in an isotonic solution. 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**

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 ...**

Video transcript. Isotonic solution. The prefix, iso, refers to things that are the same. It has the same concentration of solute, and so you have no net inflow. Hypotonic solution, you have water molecules going into the cell, the cell expanding, kind of like a filling balloon. Isotonic solution, no net flow.

**Hypotonic, isotonic, and hypertonic solutions (tonicity ...**

Traditionally, heparin has been added to isotonic sodium chloride solution or 5% dextrose in water for use in maintaining patency of pressure monitoring catheters including arterial, pulmonary artery, and central venous pressure catheters. This is due to two factors: 1) all such drinks are hypotonic (<135 mmol/L),...

**Isotonic | definition of isotonic by Medical dictionary**

In a healthcare setting, Isotonic solutions are ubiquitous (that means they're everywhere). The definition of "isotonic" for the purposes of nursing is any solution that has approximately the same ratio of solute to solvent that you see in blood. The most obvious one is 0.9% Saline Solution, better known as Normal Saline.

**Isotonic IV Solutions ★ Your Nursing Tutor**

An isotonic solution is a combination of two or more solutions that have the same or similar concentration. For instance, isotonic solutions have the same salt concentration as human blood and body cells, allowing the cells' fluid levels to remain balanced. Cells do not lose fluid or swell

with fluid when in the presence of an isotonic solution.

**What Is an Example of an Isotonic Solution? | Reference.com**

Isotonic solution is in our corpus but we don't have a definition yet. These example sentences show you how isotonic solution is used. These examples are from the Cambridge English Corpus and from sources on the web. Any opinions in the examples do not represent the opinion of the Cambridge ...

**isotonic solution | Example sentences**

Isotonic, Hypotonic, and Hypertonic Solutions. Water moves readily across cell membranes through special protein-lined channels, and if the total concentration of all dissolved solutes is not equal on both sides, there will be net movement of water molecules into or out of the cell.

**Pearson - The Biology Place**

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 ...**

Hypotonic Solution: Definition, Example & Diagram ... First, it may be considered an isotonic solution, meaning it has an equal amount of solute and water when compared to another solution.

**Hypotonic Solution: Definition, Example & Diagram - Video ...**

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 ...**

Take, for instance, two isotonic solutions, one of salt and another of sugar. The Mechanism of Life | Stphane Leduc It may be objected that segmentation is also produced by a solution which is isotonic with sea water.

**Isotonic | Definition of Isotonic at Dictionary.com**

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**

Lynn Redahan, Donal Reddan, in Evidence-Based Practice of Critical Care, 2010. Sodium Bicarbonate. NS is a slightly isotonic solution that contains equimolar concentration of sodium and chloride. Each liter of fluid administered results in a net gain of chloride into the extracellular space, and this is known to result in hyperchloremic acidosis. 50, 51 In the human diet, sodium and chloride ...

**Isotonic Solution - an overview | ScienceDirect Topics**

The actual solution in the bag is isotonic, but once you give D5W to patients the body metabolizes the glucose molecules that were once causing the solution to be isotonic. The solution is now missing solute, causing it to become a hypotonic solution.

**Hypertonic, Hypotonic, Isotonic . . . What-the ... - NRSNG**

Now hypotonic, hypertonic, and isotonic solutions usually deal with cellular osmosis which diffuses over a selectively permeable membrane. Osmosis is the movement of water and tends to diffuse by moving the water from areas of higher concentrations to areas of lower concentrations.

## Isotonic Solution

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