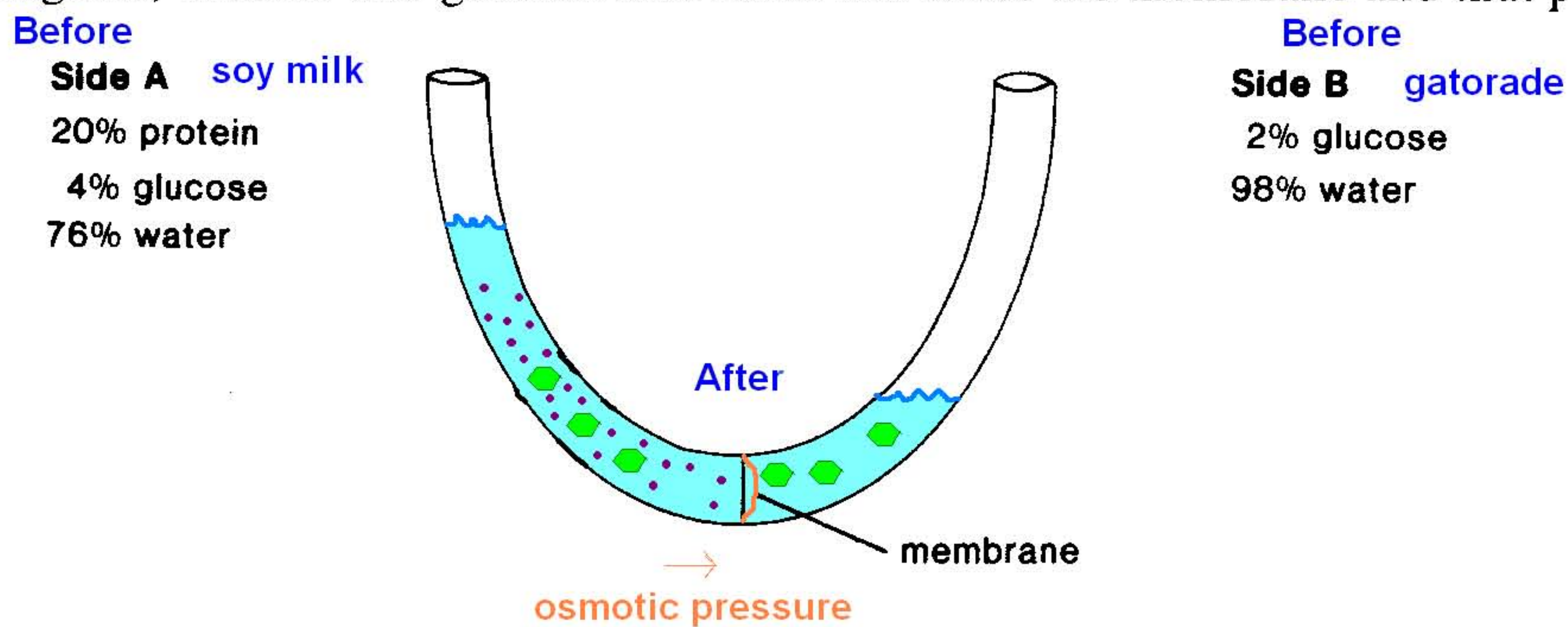


1. In the following diagram, assume that glucose and water can cross the membrane and that protein cannot.



2. Will the amount of water on side A stay the same, or increase or decrease with time? a. increase
3. Will the amount of protein on side A stay the same, or increase or decrease with time? b. stay the same
4. Will glucose cross the membrane toward side A or side B? c. B
5. On which side is there an osmotic pressure? d. within side A
6. What will happen to the level of solution on each side of the membrane? e. The net flow of water will cause A to rise

7. Complete this diagram to describe the effect of tonicity on red blood cells.

Tonicity	Before	After
Isotonic Solution		 a.
hypertonic solution		 b.
Hypotonic Solution		 c.

tonicity = the amount of osmotic pressure that pushes against the cell membrane. Too much tonicity can burst the cell, this is called lysis.

8. If a solution is 8% solute, it is a. 92 % solvent.
9. If a solution is 99.5% solvent, it is b. 0.5 % solute.
10. If solution A is 2% solute and solution B is 3% solute, then solution A is c. hypotonic to solution B which is d. hypertonic to solution A.
11. Compared to solution A, a solution with 2% solute is e. isotonic.