|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tonicity of Solution**  | **Concentration of** **Solute (outside of cell)**  | **Water (outside of cell)**   | **Net Movement**  | **End Product**   |
| **Isotonic**  | Same as cell  | Same as cell  | None  | **None**  |
| **Hypotonic** | Less than cell  | More than cell  | Cell gains water | **Swells**, turgor pressure |
| **Hypertonic** | More than cell  | Less than cell  | Cell loses water | **Shrinks** plasmolysis |



**Know the vocabulary:**

Osmosis

Osmotic Pressure

Hypertonic solution

Hypotonic solution

Isotonic solution

Turgid

Flaccid

Plasmolyzed

Hemolysis

Crenate / Crenation







See page 199 in the textbook for the functions of the cell organelles



**Bacterial cell**



