Table of Body Water Ionic Components

|  |  |  |
| --- | --- | --- |
| Body Water Compartment | Major Cations | Major Anions |
| Intracellular | Potassium (K+) | Phosphates  Proteins |
| Extracellular | Sodium (Na+) (~95% of ECF cations)  Calcium (Ca2+) | Chloride (Cl-)  Bicarbonate (HCO3-) |

* Osmotic equilibrium maintained by the free movement of water between compartments
* The Na & K concentrations are maintained between the ICF and ECF via the Na+ /K+ ATPase Pump
* Rehydration therapy sees fluids replaced into the ECF therefore the fluid must reflect ionic concentrations similar to the ECF.

Reference

***Sheep and Goat Medicine by DG Pugh and A.N. Baird, Second Edition – Ch 3 – Fluid Therapy and Nutritional Support***