

Name_____

BIO-333 Chapter 11 Guide

1. (pgs. 597-599, figs. 11-1 and 11-2, Table 11-1) Using Table 1, identify which molecular components have higher concentrations on the cytoplasmic side vs. the extracellular side of the plasma membrane. Using figure 11-1 and 11-2, identify the rates of diffusion across a lipid bilayer for each group of components.

TABLE 11-1 A Comparison of Inorganic Ion Concentrations Inside and Outside a Typical Mammalian Cell*

Component	Cytoplasmic concentration (mM)	Extracellular concentration (mM)
Cations		
Na ⁺	5-15	145
K ⁺	140	5
Mg ²⁺	0.5	1-2
Ca ²⁺	10 ⁻⁴	1-2
H ⁺	7 × 10 ⁻⁸ (10 ^{-7.2} M or pH 7.2)	4 × 10 ⁻⁸ (10 ^{-7.4} M or pH 7.4)
Anions		
Cl ⁻	5-15	110

*The cell must contain equal quantities of positive and negative charges (that is, it must be electrically neutral). Thus, in addition to Cl⁻, the cell contains many other anions not listed in this table; in fact, most cell constituents are negatively charged (HCO₃⁻, PO₄³⁻, nucleic acids, metabolites carrying phosphate and carboxyl groups, etc.). The concentrations of Ca²⁺ and Mg²⁺ given are for the free ions; although there is a total of about 20 mM Mg²⁺ and 1-2 mM Ca²⁺ in cells, both ions are mostly bound to other substances (such as proteins, free nucleotides, RNA, etc.) and, for Ca²⁺, stored within various organelles.

Sodium ions have higher concentrations in the extracellular fluid while potassium ions have higher concentration in the cytoplasmic fluid.

Ch11 Study Guide Teacher Key Biology

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