

TABLE 3.2

Conductances of Some Ionic Channels^a

System	Specificity	Conductance (pS)
Gramicidin channel	Cations	4–7 (V_{max})
Ligand-gated channels		
Acetylcholine receptor	Cations	4–50
Glutamate receptor	Cations	120
Glycine receptor	Anions	30–70
GABA receptor	Anions	10–20
Sodium (voltage-gated) (nerve, muscle)	Na	4–20
Potassium (voltage-gated) (nerve, muscle)	K	2–20
Potassium (Ca-activated)		
Nerve cells	K	10–20
Red blood cells	K	20
Sarcoplasmic reticulum	K, others	180–240 (for K)
Chromaffin cells	K	180
Calcium (many cell types)		
T (Tiny)	Ca	8 (Ba)
L (Large)	Ca	25 (Ba)
N (Neurons)	Ca	15 (Ba)
Chloride channel (muscle)	Anions	400

^a From Hille (1984); Stein (1986); Tsien (1987).