

**TABLE 1.2. Elemental Composition of *Chlorella* and *Euglena* (Freshwater, Nonvacuolate Algae) and the Concentration of Available Sources of the Elements in Freshwater (From Raven, 1980a)<sup>a</sup>**

Element	mmol m <sup>-3</sup> in freshwater	<i>Chlorella</i> (mol per 1,000 mol C)	<i>Euglena</i> (mol per 1,000 mol C)
C	10–2,500 (CO <sub>2</sub> + HCO <sub>3</sub> <sup>-</sup> + CO <sub>3</sub> <sup>2-</sup> )	1,000	1,000
N	0.5–50 (NH <sub>4</sub> <sup>+</sup> + NO <sub>3</sub> <sup>-</sup> )	100–130	90–160
S	100–1,200 (SO <sub>4</sub> <sup>2-</sup> )	3–6	3–15
P	0.5–1.8 (H <sub>2</sub> PO <sub>4</sub> <sup>-</sup> + HPO <sub>4</sub> <sup>2-</sup> )	3–19	5–18
K	7–200 (K <sup>+</sup> )	2.5–15	2–15
Na	5–500 (Na <sup>+</sup> )	0.2–5	0.2–0.25
Ca	11–3,000 (Ca <sup>2+</sup> )	2	0.02–0.3
Mg	8–600 (Mg <sup>2+</sup> )	2–14	0.8–1.5
Cl	4–300 (Cl <sup>-</sup> )	0.2	0.1–0.2

<sup>a</sup>Note that nitrate is available as a nitrogen source to *Chlorella* but not to *Euglena*.