

TABLE 8.2 Free amino acid concentration (fmol cell⁻¹) in nitrogen-limited cultures of *Thalassiosira pseudonana* grown under N-limited and N-replete conditions

	N-limited	N-replete	Replete/Limited
Aspartate	0.19	0.96	5.1
Glutamate	0.38	2.6	6.8
Asparagine	0.02	0.55	34
Glutamine	0.05	1.43	31
Lysine	0.04	0.25	5.8
Arginine	0.03	0.15	4.5
Threonine	0.07	0.12	1.8
Serine	0.19	0.36	1.9
Tyrosine	0.02	0.05	3.3
Glycine	0.14	0.30	2.2
Alanine	0.10	0.43	4.3
Valine	0.03	0.13	4.2
Leucine	0.03	0.10	3.1
Isoleucine	0.03	0.06	2.4
Phenylalanine	0.01	0.05	3.6
Methionine/tryptophan	0.02	0.19	11.2
Total	1.3	7.7	5.8

Source. Zehr et al. (1988).