

Table 1. Mass balance of nitrogen and phosphorus constituents ($\mu\text{g-atoms liter}^{-1}$) at time (t_{max}) when maximum biomass was attained in bacterial cultures grown on various combinations of carbon and nitrogen sources.

Exp.	Substrate characteristics			Nutrients at max biomass							
	Source	C:N _S (by atoms)	t_{max}^* (d)	Nitrogen				Phosphorus			
				NH ₄ ⁺	PN	TN†	UN‡	TDP	PP	TP†	UP‡
A	arginine	1.5	2.1	70.0	29.4	99.4	0.6	8.8	1.1	9.9	0.1
	arg + glucose	3	1.3	48.8	60.1	108.9	—	6.8	3.1	9.9	0.1
	arg + glucose	6	1.5	16.1	68.3	84.4	15.6	3.4	6.8	10.2	—
	arg + glucose	10	2.1	0.1	81.9	82.0	18.0	1.6	8.1	9.7	0.3
B	NH ₄ ⁺ + glucose	1.5	0.5	85.7	19.6	105.3	—	7.4	2.4	9.8	0.2
	glycine	2	6.2	83.2	14.5	97.7	2.3	8.3	2.4	10.7	—
	L-alanine	3	1.0	73.8	30.1	103.9	—	6.2	4.2	10.4	—
	L-aspartate	4	1.5	73.5	33.2	106.7	—	6.2	4.4	10.6	—
	glutamate	5	1.5	46.1	52.0	96.1	3.9	3.9	6.4	10.3	—
	isoleucine	6	6.2	56.7	44.8	101.5	—	5.6	4.5	10.1	—
	phenylalanine	9	6.2	30.5	65.8	96.3	3.7	2.3	7.0	9.3	0.7
	NH ₄ ⁺ + glucose	10	1.0	0.0	91.1	91.1	8.9	0.5	9.6	10.1	—

* Time for culture to attain maximum biomass.

† Sum of NH₄⁺ + PN or TDP + PP.

‡ Unaccounted for N (100 - TN) or P (10 - TP).