

Table VI. The macromolecular biomass composition of *E. coli*, grown in aerobic glucose-limited cultures, as a function of dilution rate.

	$D = 0.025 \text{ h}^{-1}$	$D = 0.05 \text{ h}^{-1}$	$D = 0.1 \text{ h}^{-1}$	$D = 0.3 \text{ h}^{-1}$
Protein	63.95	64.81	68.19	65.43
RNA	5.21	5.86	7.26	13.06
DNA	0.79	0.89	1.10	1.98
Total lipids	20.18	18.80	14.54	11.20
glyc	6.30	5.87	4.54	3.49
etha	3.79	3.53	2.73	2.11
hdca	4.34	4.04	3.12	2.41
hdcea	3.33	3.10	2.40	1.85
ocdcea	2.42	2.26	1.74	1.34
Lipopolysaccharides	1.18	1.10	0.85	0.65
Polysaccharide = glycogen	0.87	0.81	0.62	0.48
Peptidoglycan = murein	0.87	0.81	0.62	0.48
Putrescine	0.40	0.37	0.29	0.22
Spermidine	0.13	0.12	0.10	0.07
Ash	6.43	6.43	6.43	6.43
Sum	100.00	100.00	100.00	100.00
Biomass composition	$\text{CH}_{1.74}\text{N}_{0.24}\text{O}_{0.34}\text{S}_{0.006}\text{P}_{0.005}$	$\text{CH}_{1.73}\text{N}_{0.24}\text{O}_{0.35}\text{S}_{0.006}\text{P}_{0.005}$	$\text{CH}_{1.69}\text{N}_{0.25}\text{O}_{0.35}\text{S}_{0.007}\text{P}_{0.007}$	$\text{CH}_{1.64}\text{N}_{0.27}\text{O}_{0.37}\text{S}_{0.007}\text{P}_{0.012}$
γ_x	4.41	4.38	4.31	4.21

The macromolecules are given in % of cell dry weight.

Protein content was measured.

RNA content was estimated from the data in Table V.

DNA content was estimated from the RNA/DNA ratio published by Neidhardt (1987).

Lipid components are: glyc, glycerol; etha, ethanolamine; hdca, $\text{C}_{16:0}$ fatty acid; hdcea, $\text{C}_{16:1}$ fatty acid; ocdcea, $\text{C}_{18:1}$ fatty acid.

Ash content was assumed to be 6.43% and independent of growth rate.