

TABLE 1. Yield characteristics of *E. coli B* growing in glucose-limited anaerobic continuous culture^a

| <i>D</i> (h ⁻¹) | <i>x</i> (μg [dry wt]/ml) | Residual glucose (mM) | Glucose ^b metabolized (mM) | Acetate produced (mM) | ATP/glucose metabolized | <i>Y</i> _{glucose} ^c | <i>Y</i> _{ATP} ^d |
|--------------------------------|------------------------------|--------------------------|--|--------------------------|----------------------------|--|--------------------------------------|
| 0.087 | 107 | ND ^e | 12.7 | 9.5 | 2.75 | 8.40 | 3.05 |
| 0.153 | 135 | ND | 12.4 | 5.1 | 2.41 | 10.9 | 4.50 |
| 0.254 | 176 | ND | 12.2 | 4.3 | 2.35 | 14.4 | 6.13 |
| 0.364 | 188 | 0.015 | 12.1 | 4.7 | 2.39 | 15.6 | 6.53 |
| 0.570 | 129 | 4.67 | 7.8 | 1.7 | 2.22 | 16.5 | 7.43 |

^a Conditions: 330-ml vessel; 13.5 mM glucose in medium.

^b Glucose metabolized = glucose concentration in reservoir medium minus glucose concentration in effluent (residual glucose) minus glucose equivalent of incorporated carbon. Glucose incorporated (mM) = 0.456 *x*/(12) (6).

^c *x* (micrograms/milliliter)/micromoles of glucose metabolized per milliliter.

^d *Y*_{glucose}/moles of ATP per mole of glucose metabolized.

^e ND, Not detectable.