

TABLE 1. Cell yields, metabolic fluxes, and carbon recovery as a function of the dilution rate in aerobic, glucose-limited chemostat cultures of *S. cerevisiae* DS28911^a

D (h ⁻¹)	Yield (g · g ⁻¹)	q_{O_2}	q_{CO_2}	q_{glucose}	q_{ethanol}	q_{acetate}	q_{pyruvate}	q_{glycerol}	Carbon recovery (%) ^b
0.025	0.45	0.8	0.8	0.3	0 ^c	0	0	0	98.9
0.05	0.47	1.3	1.4	0.6	0	0	0	0	95.0
0.10	0.48	2.5	2.7	1.1	0	0	0	0	96.0
0.15	0.49	3.9	4.2	1.7	0	0	0	0	102.4
0.20	0.48	5.3	5.7	2.3	0	0	0	0	100.9
0.25	0.48	7.0	7.5	2.8	0	0	0	0	102.6
0.28	0.46	7.4	8.0	3.4	0.11	0.08	0.01	0	97.0
0.30	0.37	6.1	8.8	4.5	2.3	0.41	0.01	0	99.1
0.35	0.23	5.1	14.9	8.6	9.5	0.62	0.03	0.05	99.4
0.40	0.20	3.7	18.9	11.1	13.9	0.60	0.05	0.15	97.9

^a Fluxes (q) are expressed as millimoles per gram of dry yeast biomass per hour.
^b Carbon recoveries were based on a carbon content of dry yeast biomass of 48%.
^c 0, below detection limit.