Table 1. Main growth parameters obtained in this work for *Kluyveromyces marxianus* compared with those obtained for other yeast strains

Yeast strain	Cultivation mode	μ (h^{-1})	μ_S [g (g DW h^{-1})]	DT (h)	$Y_{X/S}$ (g DW g^{-1})	qO2 (mmol g^{-1} h^{-1})	qCO2 (mmol g^{-1} h^{-1})	RQ	Reference
K. marxianus ATCC 26548 (= CBS 6556)	Batch*	μmax = 0.56 ± 0.02	1.095 ± 0.005	1.24	0.51 ± 0.02	11.05 ± 1.03	12.06 ± 0.55	1.09	This work
	Continuous†,‡	D = 0.1	0.22	6.93	0.45 ± 0.00	2.67 ± 0.07	2.69 ± 0.08	1.01	
	Continuous†	D = 0.1	0.20	6.93	0.49 ± 0.00	2.87 ± 0.08	2.82 ± 0.09	0.98	
	Continuous†	D = 0.25	0.52	2.77	0.48 ± 0.00	6.65 ± 0.06	7.30 ± 0.07	1.10	
	Continuous†	D = 0.5	1.05	1.39	0.48 ± 0.00	11.09 ± 0.19	11.50 ± 0.12	1.04	
K. marxianus CBS 6556	Batch	μmax = 0.44 ± 0.03	0.90	1.57	0.49	–	13.46	–	Bellaver *et al.* (2004)
	Continuous§	D = 0.1	–	6.93	–	–	4.0 ± 0.3	–	Rouwenhorst *et al.* (1991)
	Continuous¶	D = 0.1	–	6.93	–	3.1	–	–	Verduyn *et al.* (1992)
	Continuous‖	D = 0.1	0.23	6.93	0.43	–	–	–	Postma & van den Broek (1990)
	Continuous‖	D = 0.2	0.46	3.46	0.43	–	–	–	
	Continuous**	D = 0.2	0.42	3.46	0.48	–	–	–	Hensing *et al.* (1994)
	Continuous††	D = 0.2	0.5	3.46	0.40	–	–	–	
K. lactis CBS 2359	Continuous	D = 0.1	0.21	6.93	0.48	3.7	3.7	1	Kiers *et al.* (1998)
	Continuous	D = 0.2	0.41	3.46	0.49	6.2	6.2	1	
	Continuous	D = 0.4	0.82	1.73	0.49	11.3	11.3	1	
S. kluyvery Y708	Continuous	D = 0.1	0.22	6.93	0.46	4.2	4.1	0.98	Møller *et al.* (2002)
	Continuous	D = 0.3	0.62	2.31	0.48	9.5	10	1.05	
	Continuous	D = 0.54	1.08	1.28	0.50	13.6	15	1.1	
	Continuous	D = 0.63	2.62	1.10	0.24	6.8	20.4	3.0	
S. cerevisiae CBS 8066	Continuous‡‡	D = 0.1	0.20	6.93	0.51	2.5	2.7	1.08	Bruinenberg *et al.* (1986), Postma *et al.* (1989a, b), van Dijken *et al.* (1993)
	Continuous‡‡	D = 0.3	0.60	2.31	0.50	7.5	8.5	1.1	
	Continuous‡‡	D = 0.4	1.82	1.73	0.22	9	20.5	2.3	
S. cerevisiae LBGH-1022	Continuous	D = 0.1	0.21	2.77	0.49	–	–	1.07	Furukawa *et al.* (1983)
		D = 0.25	0.50	2.77	0.50	7.1	7.6	1.07	
	Continuous	D = 0.3	1.41	2.31	0.21	3.4	18.5	5.44	
S. cerevisiae CEN.PK 113-7D	Continuous	D = 0.1	0.21	6.93	0.48	2.7	2.8	1.04	van Hoek *et al.* (1998b)
	Continuous	D = 0.25	0.20	2.77	0.49	7.0	7.3	1.04	
	Continuous	D = 0.38	2.37	1.82	0.16	3.9	21	5.38	
S. cerevisiae DS2891	Continuous	D = 0.1	0.21	6.93	0.48	2.5	2.7	1.08	van Hoek *et al.* (1998a)
	Continuous	D = 0.25	0.52	2.77	0.48	7.0	7.5	1.07	
	Continuous	D = 0.4	2.00	1.73	0.20	3.7	18.9	5.11	

*Average and SD from two independent cultivations.

†Average and SD calculated from five samples obtained at 1-h intervals during each steady state.

‡This cultivation was carried out under the same conditions as the other experiments in this work (30 °C, pH 5.0, glucose 10 g L^{-1}), except for aeration, which was 2.5 v.v.m., instead of 1 v.v.m.

§Sucrose 5 g L^{-1} (40 °C).

¶37 °C.

‖40 °C.

**Sucrose 5 g L^{-1} (30 °C).

††Sucrose 5 g L^{-1} (40 °C).

‡‡Glucose 15 g L^{-1}.

DT, doubling time; $Y_{X/S}$, biomass yield on substrate; v.v.m., air volume per culture volume per minute.

Some data from other authors presented in this table were obtained from graphics or calculated.