

Supplementary Table 3. Physiological phenotypes of the ancestral interspecific hybrid in relation to three independently evolved clones. Estimates of cell density, biomass and residual glucose were derived from culturing single colony isolates of the ancestral *S. cerevisiae* x *S. uvarum* interspecific hybrid (GSY86) and 3 evolved isolates (GSY2532, GSY2533, GSY2535). Samples were removed from aerobic, inorganic nitrogen-limited chemostats at steady state, $D=0.16 \text{ h}^{-1}$. We used a one-way ANOVA followed by a Student-Newman-Kuels test to detect significant differences. Different lettering in superscript indicates resolved significant differences between isolates; $n=3$. For all strains, residual ammonium was near or below the assay detection limit (0.01 ppm).

Strain	A600 Mean (S.E.)	Dry weight (mg L^{-1}) Mean (S.E.)	Residual Glucose (g l^{-1}) Mean (S.E.)
GSY86	1.04 (0.05)	737 (24.0) ^a	1.51 (0.2)
GSY2532	1.08 (0.02)	807 (19.5) ^b	1.69 (0.17)
GSY2533	1.05 (0.03)	726 (8.1) ^a	1.59 (0.26)
GSY2535	1.16 (0.02)	852 (12.5) ^b	1.74 (0.36)
ANOVA	$P=0.8$	$P=0.002^*$	$P=0.92$