

AMB Express

Supplemental Materials for

Butanol-isopropanol Fermentation Using a Robust Oxygen-tolerant *Clostridium beijerinckii* XH29

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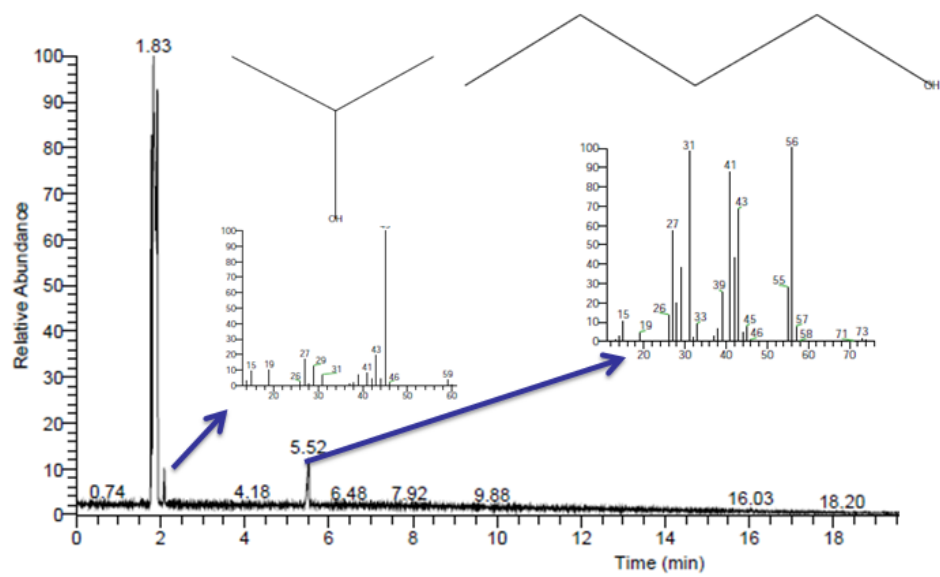


Fig. S1 The determination of butanol and isopropanol by GS-MS

Figure S2 The survival rate curve of UV irradiated

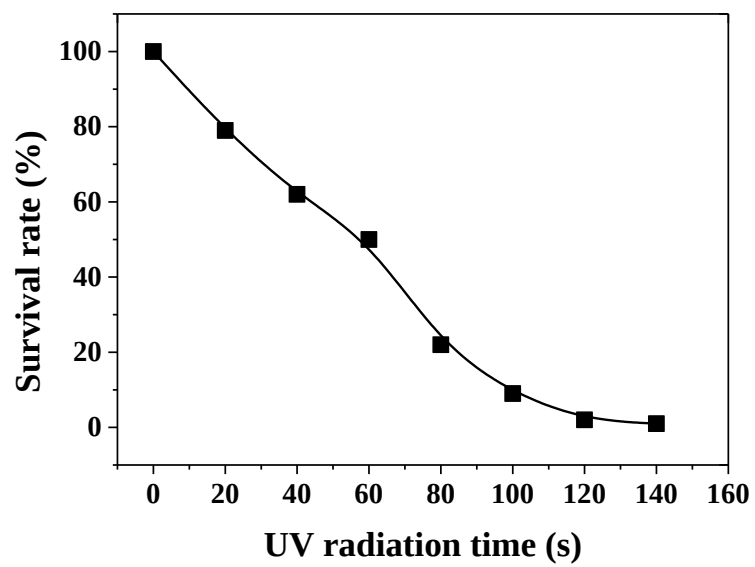




Figure S3 The selective plate of mutants

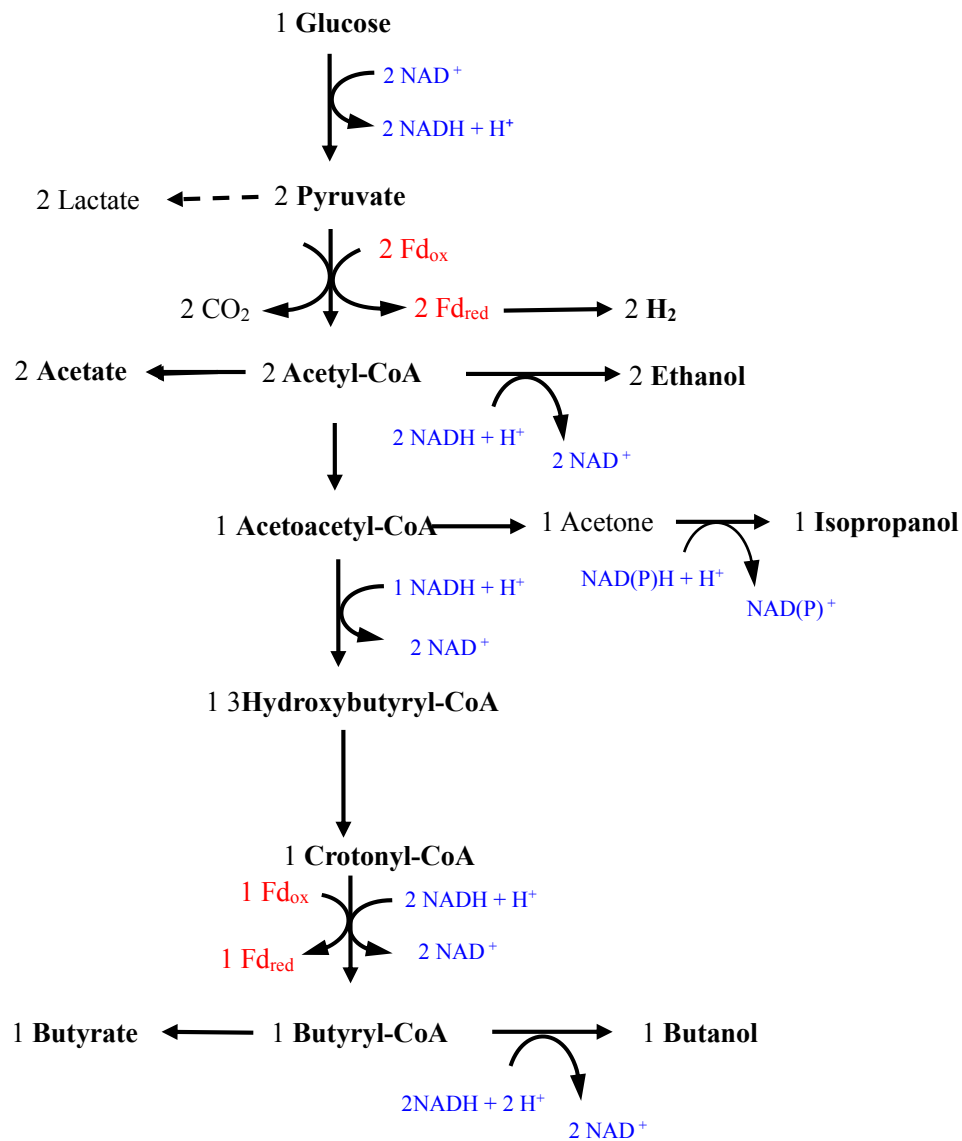


Figure S4 The schematic metabolic pathways in butanol producing clostridia

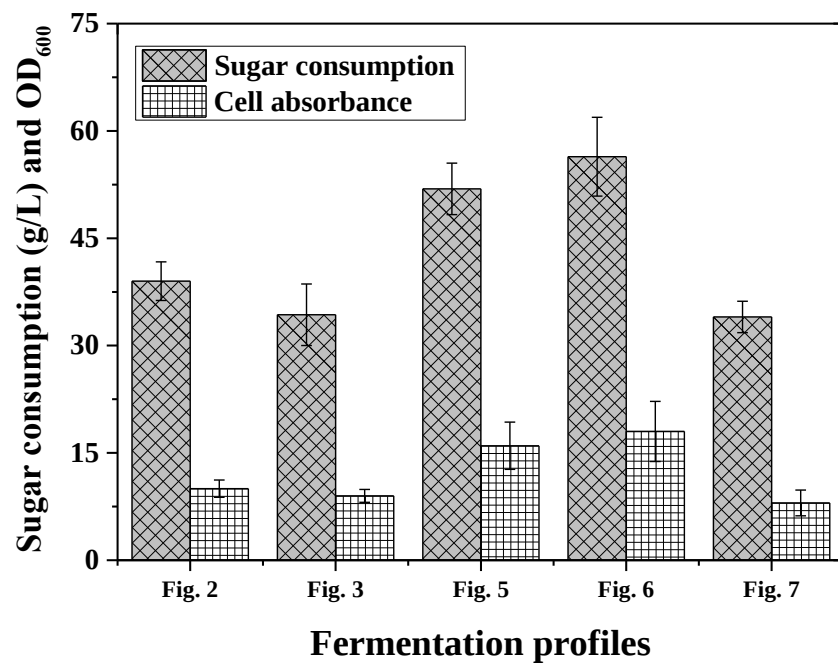


Figure S5 Cell growth and sugar consumption under different conditions in this study

Table S1 Compositional analysis of SECS hydrolysates

Sugars	Conc. (g/L)	Others	Conc. (mg/L)
	DTH ^b		DTH ^b
Glucose	42.1 ± 3.7	Furfural	200 ± 13
Xylose	17.6 ± 1.2	HMF	120 ± 40
Cellobiose	4.8 ± 0.9	Formic acid	540 ± 100
Total ^a	64.5	Acetate	2000 ± 600

^aTotal indicates the total sugars of glucose, cellulose and xylose determined by HPLC. ^bDTH indicates detoxification hydrolysate.