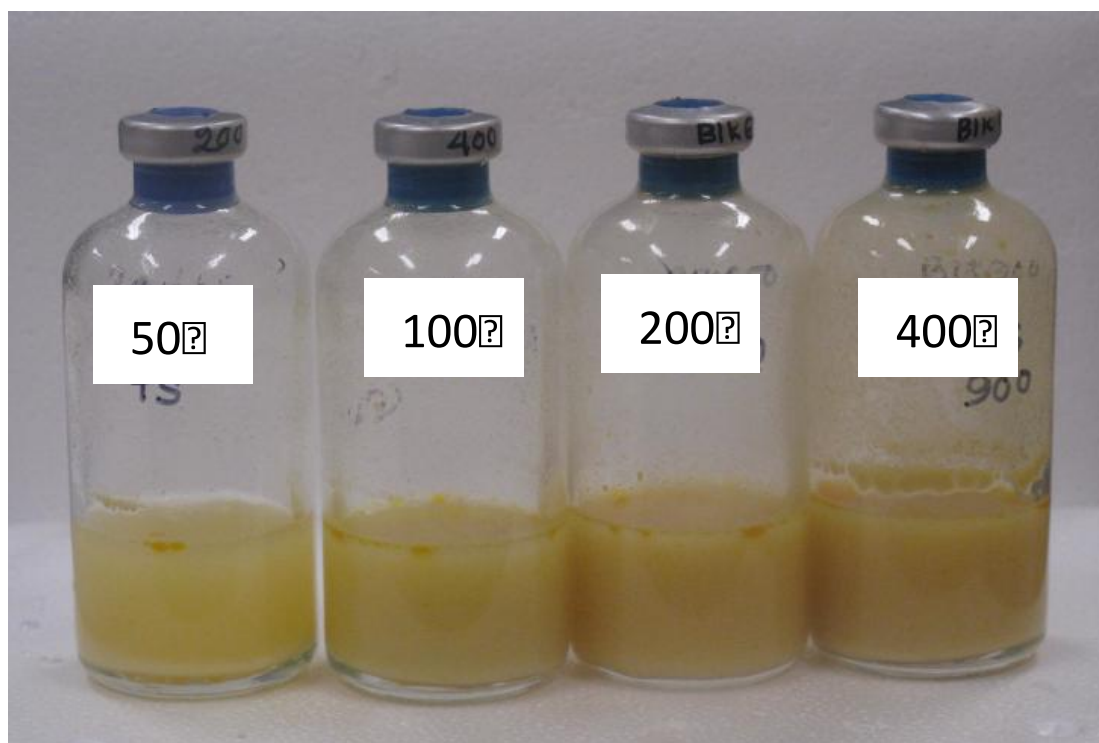


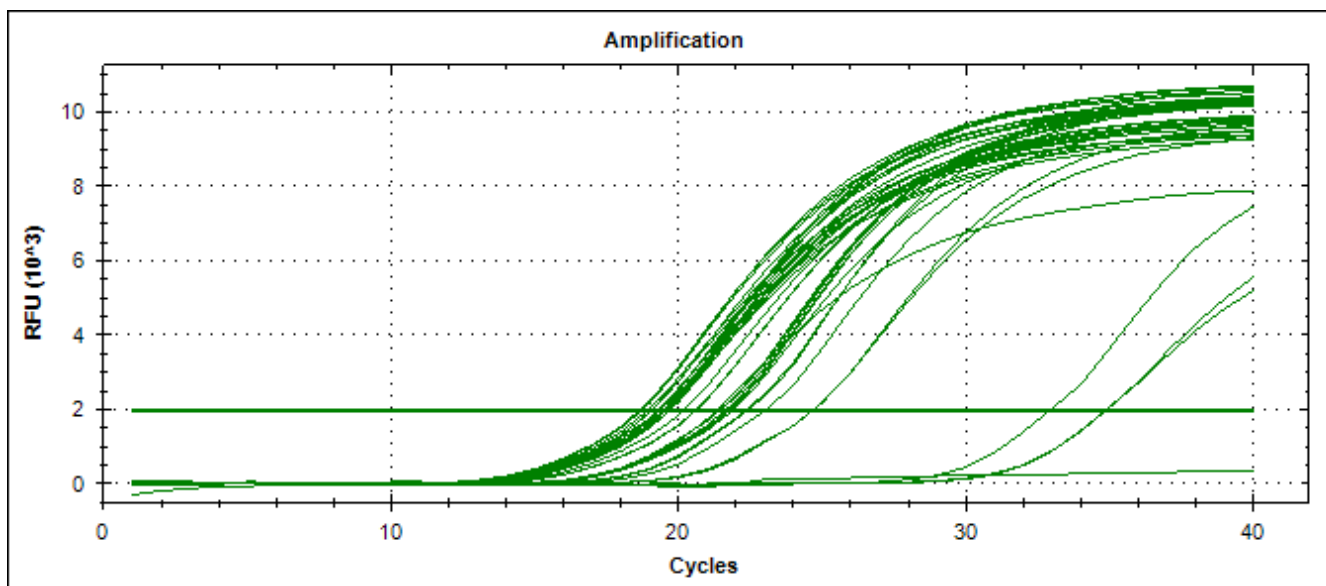
## Supplementary

**Table S1. Composition and cost of MJ medium with yeast extract.** Costs were estimated based on chemical prices at the Sigms-Aldrich Co. website (accessed October, 2015).

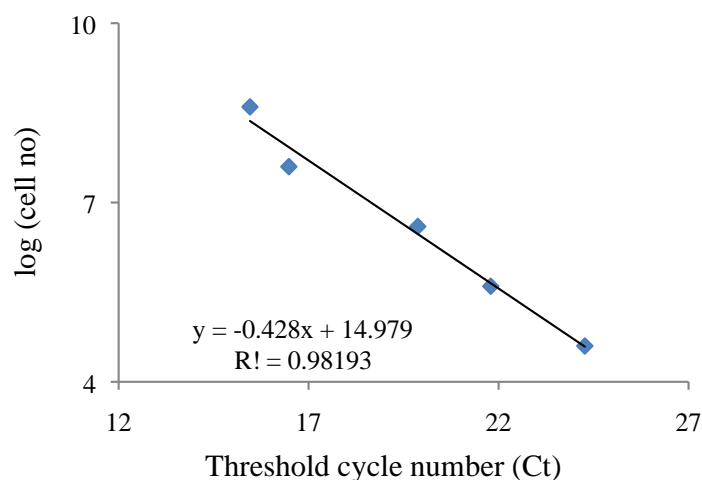
Component	mg/L	Price in Canadian \$/L
KH <sub>2</sub> PO <sub>4</sub>	1500	0.2543
K <sub>2</sub> HPO <sub>4</sub>	2900	0.5641
Urea	2100	0.2541
Magnesium chloride	1000	0.0805
Calcium chloride	150.0	0.0220
Ferrous sulphate	1.3	0.0003
L-Cysteine	1000	0.5700
Resazurin	2	0.0318
Morpholinopropane sulfonic acid	10,000	4.2704
yeast extract	1000	0.2260
Pyridoxamine hydrochloride	2.0	0.1138
Biotin	0.2	0.0430
Amino benzoic acid	0.4	0.0003
Vit-B12 (Cyanocobalamin)	0.2	0.0480
Sodium citrate. 2H <sub>2</sub> O	3000	0.2505



**Figure S1. Thin stillage (TS) media in 60 mL serum bottles. Various (50 to 400 g/L) concentrations of TS were added to buffer solution.**



**Figure S2.** Amplification plot of qPCR showing correlation of cycle number vs. fluorescence for standards and samples.



**Figure S3.** Quantitative PCR standard curve for *C. thermocellum* 1237. Log (10 base) of cell-number represents copies of *cpn60* gene amplicons of the bacteria. DNA templates were extracted from pre-diluted cellobiose grown cells with known optical density (OD).



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