Fig. 1  Fermentation using *E. coli* KO11, *Z. mobilis* AX101 and *S. cerevisiae* 424A(LNH-ST) in 2% w/v Corn Steep Liquor (CSL) with (A) glucose as sole carbon source, (B) glucose and xylose mixture at ratio 7:3 and (C) xylose as sole carbon source. Fermentation was conducted in the fleaker fermentor under largely anaerobic condition and initiated at cell density equivalent to 0.5 unit OD600nm. Temperature and pH were controlled at 37°C, 6.8 for KO11, and 30°C, 5.5 for AX101 and 424A(LNH-ST).