

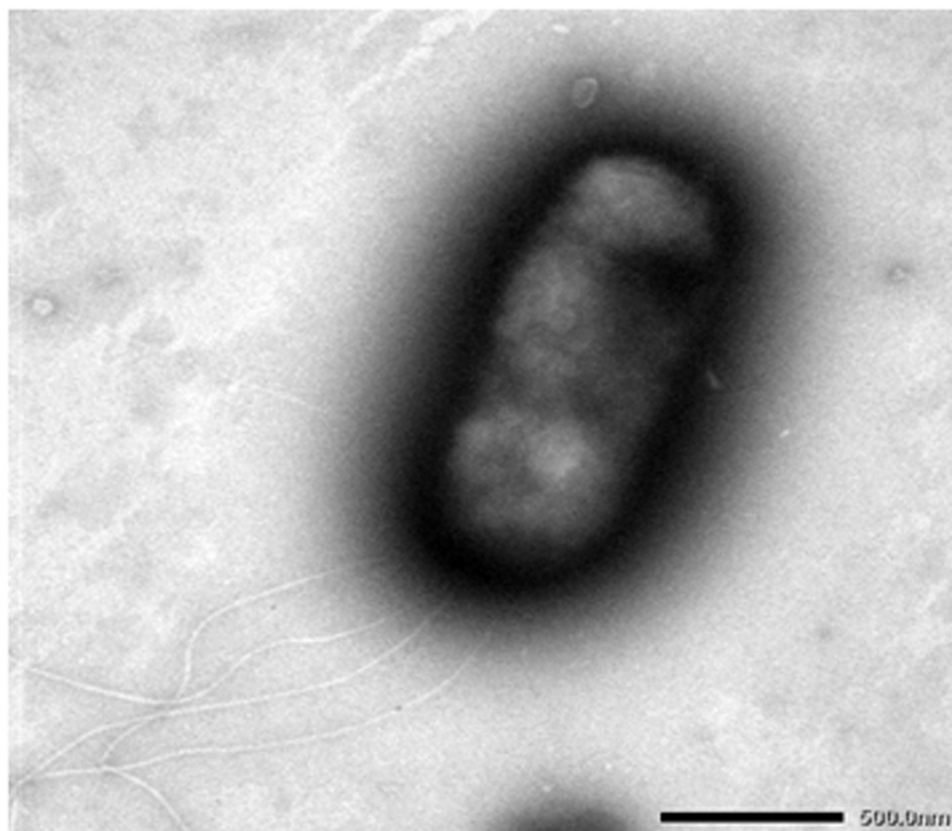


Figure S1 Micrographs of *T. thermosaccharolyticum* DD32. Transmission electron microscopy (TEM) micrograph.

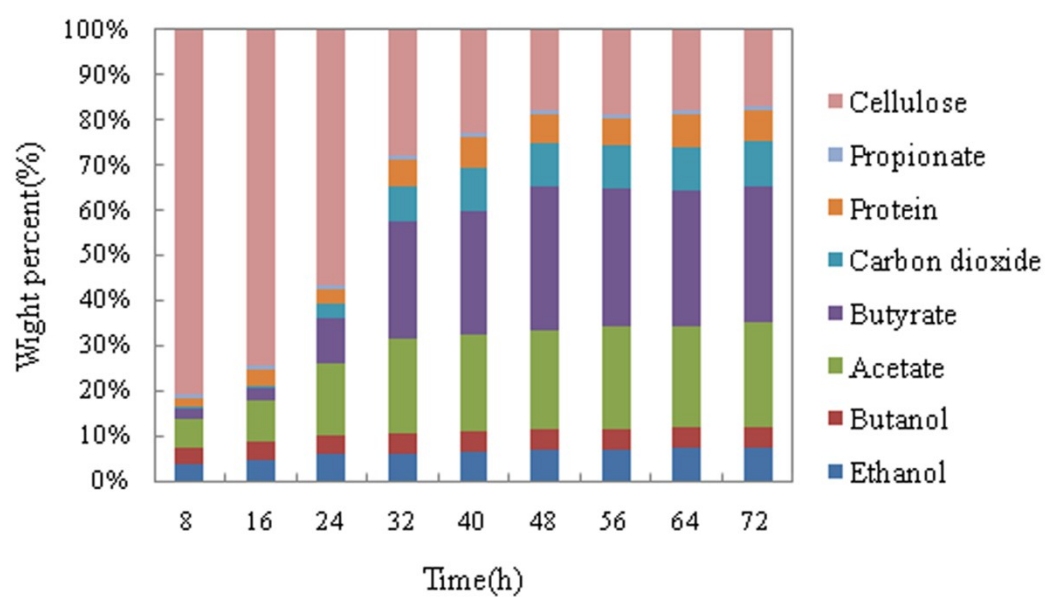


Figure S2. Carbon balance analysis of *T. thermosaccharolyticum* DD32 at 5.0 g L⁻¹ Avicel, 1.5 g L⁻¹ Yeast, pH 7.5, 55°C within 72 h of batch fermentation of *T.thermosaccharolyticum* DD32.