## **Supplementary Materials:**

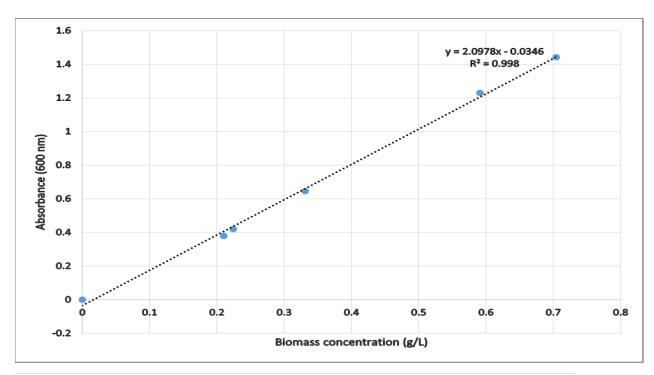


Figure S1. Conversion of absorbance to biomass (dry weight of cell) of bacterium.

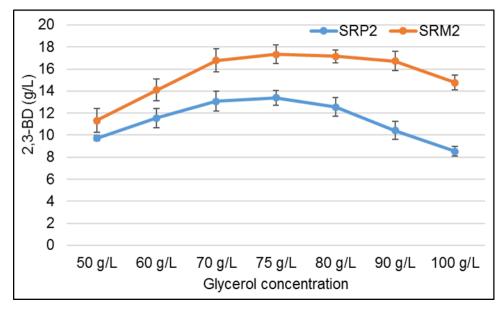


Figure S2. Influence of crude glycerol concentration on the production of 2,3-BD after 48h at  $37^{0}$ C and initial pH 7.0.