

Fig. S1: Qualitative test for urease enzyme production
(A) Control (B) Positive result (C) Negative result



Fig. S2: Quantitative estimation of calcium carbonate
(A) Before titration; (B) After titration

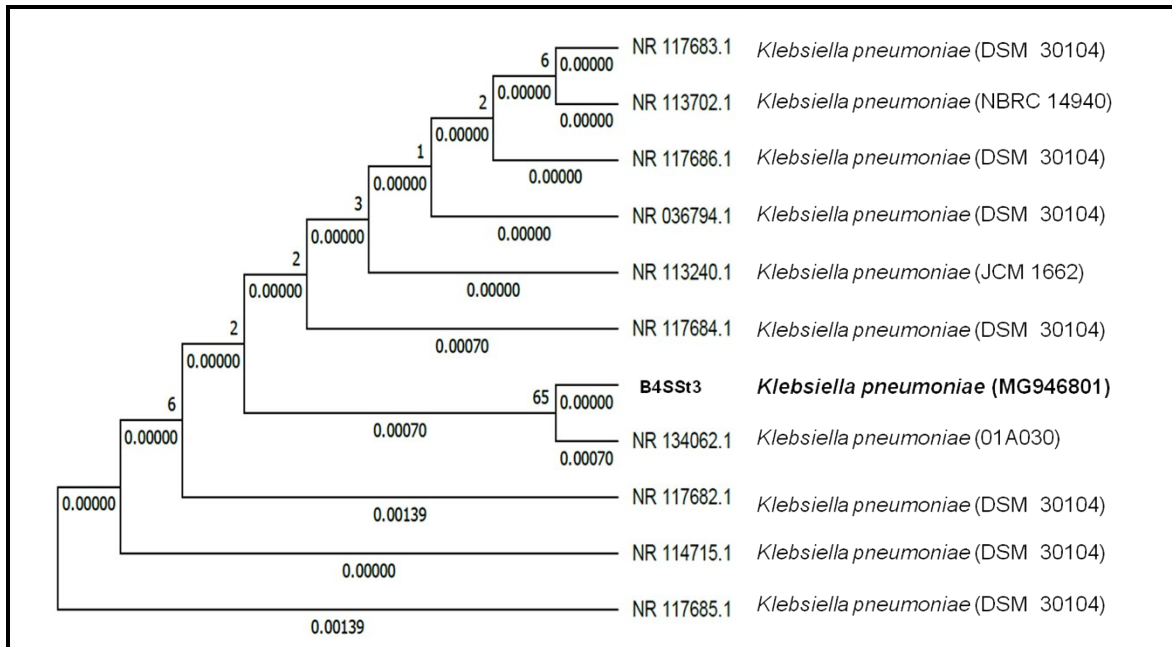


Fig. S3: Phylogenetic tree for B4SSt3 - *Klebsiella pneumoniae* (MG946801)

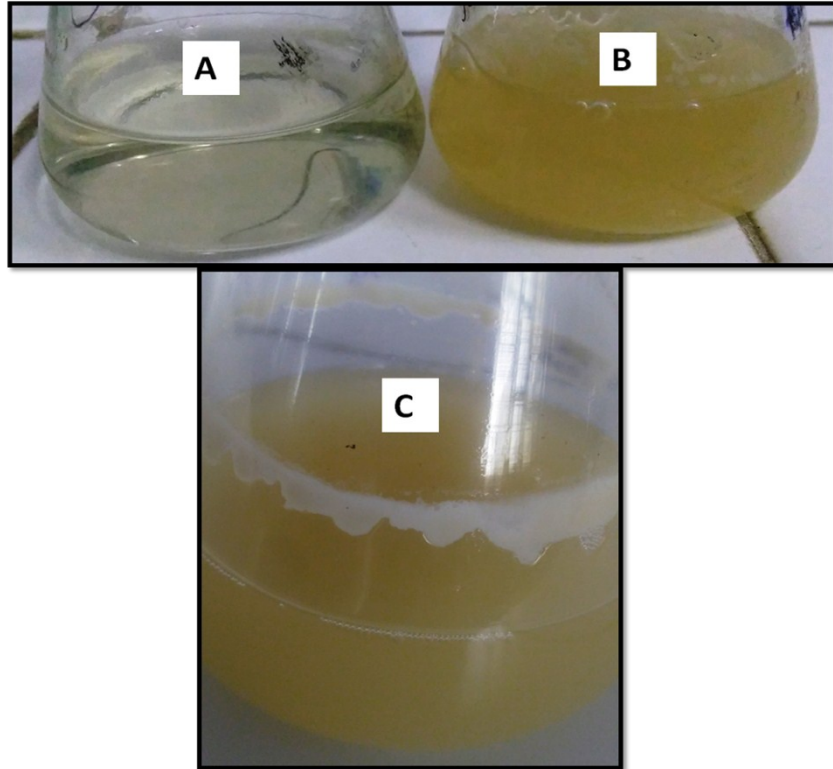


Fig. S4: Precipitation of calcium carbonate by B4SSt3 under optimized conditions

(A) Control; (B) Color change after mineral precipitation; (C) Thick layer of calcium carbonate along the walls of flask