



Figure S1 Light microscope images of encapsulated *R. zopfii* culture morphologies in activated SBP microfiltration capsules over time (14 days) in MSM+2% LB growth medium. *R. zopfii* growth exhibited Gram-positive stain filaments together with cocci-shaped cells. (a) 7 days ($\times 1000$), (b) 11 days ($\times 1000$), (c) 14 days ($\times 1000$), (d) 14 days ($\times 100$). Encapsulated *R. zopfii* showed progressive fragmentation at the edge of the colony 7 days after the capsules' activation. Fourteen days after activation, the colony presented large (over 1000 μm) and dense filaments (like a floc particle structure) containing some extracellular polymer substances (EPS). Fragmentation into coccoid elements was also observed at this stage