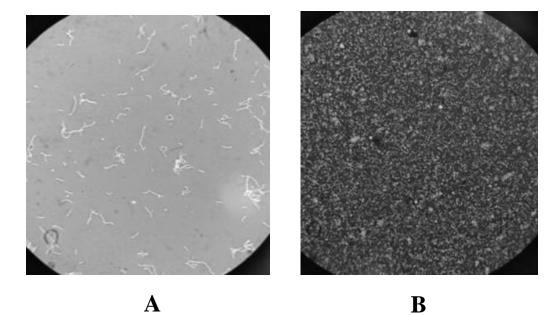


Α

B

Supplementary Fig. 1. Morphological changes in *L. fermentum* SR4 during ZnSO4 treatment for Zinc enrichment. A) Control Group of *Lactobacillus fermentum* SR4 by SEM B) Treatment Group of *Lactobacillus fermentum* SR4 with ZnSO4 at 10,000x magnification



B

Supplementary Fig. 2. Ultra-sonication of L. fermentum SR4 biomass A) Morphology of intact bacterial cell before cell lysis; **B**) Image displaying the complete lysis of cell sonication.