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**Bacterial synthesis of magnetic Fe3O4 nanoparticles: decolorization Acid Red 88 using FeNPs /Ca-Alg beads**

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Figure S1. Biosynthesis of FeNPs



Figure S2. Biosynthesized FeNPs size distribution



Figure S3. Evaluation of biotoxicity using radish seeds after 7 days of sun exposure (comparison of RSG, RRG) [A] and (comparison of GI) [ B], The sizes of radish seeds are in order from the left (control H2O [3 cm], Acid Red 88 dye [0.5 cm], Acid Red 88 product [2.5 cm], respectively (C)



Figure S4. Growth curve strain S2