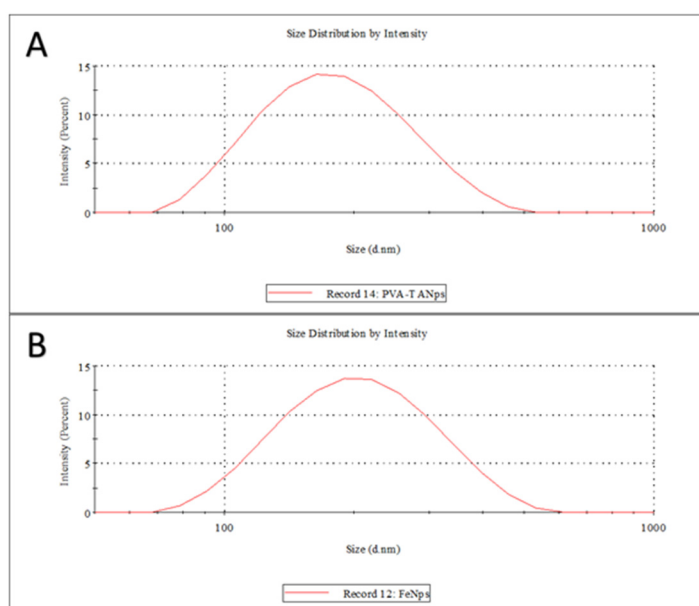
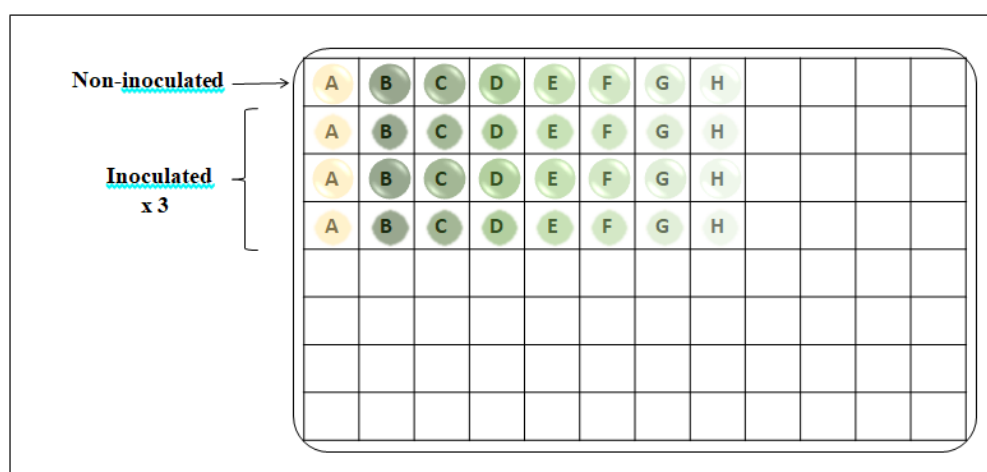


## Supplementary Materials



**Figure S1:** Supplementary Information, Figure S1: Size distribution of A) PVA-TANPs y B) FeNPs. It can be observed that PVA-TANPs intensity peaks at a lower size than FeNPs.



**Figure S2:** Scheme of the microtitre plate for determination of the CMI of the bacterium *B. aryabhatai* RSO25 towards the FeNPs nanoparticles. A: MH; B: MH + 20 % FeNPs; C: MH + 10 % FeNPs; D: MH + 5 % FeNPs; E: MH + 2.5 % NPs of FeNPs; F: MH + 1.25% FeNPs; G: MH + 0.625 % FeNPs; H: MH + 0.3125 % FeNPs.