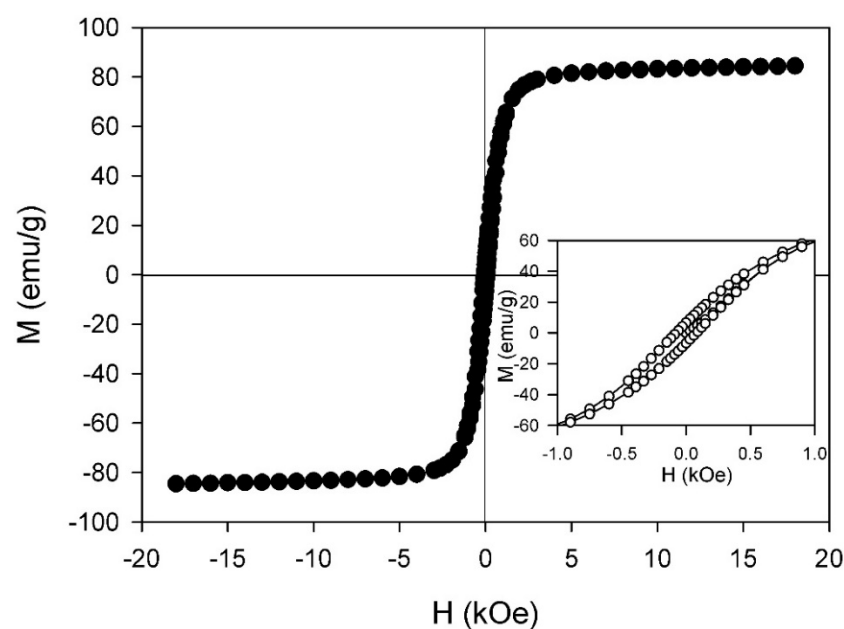


**Figure S1.** XRD plot of iron oxide sub-micron particles with corresponding Miller indexes.



**Figure S2.** Magnetic hysteresis loop of iron oxide sub-micron particles. The inset shows the part of the loop in low field range.