Supporting Information

Extended-release of metronidazole drug using chitosan/graphene oxide bio-nanocomposite beads as drug carrier

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1. Thermogravimetric analysis (TGA)

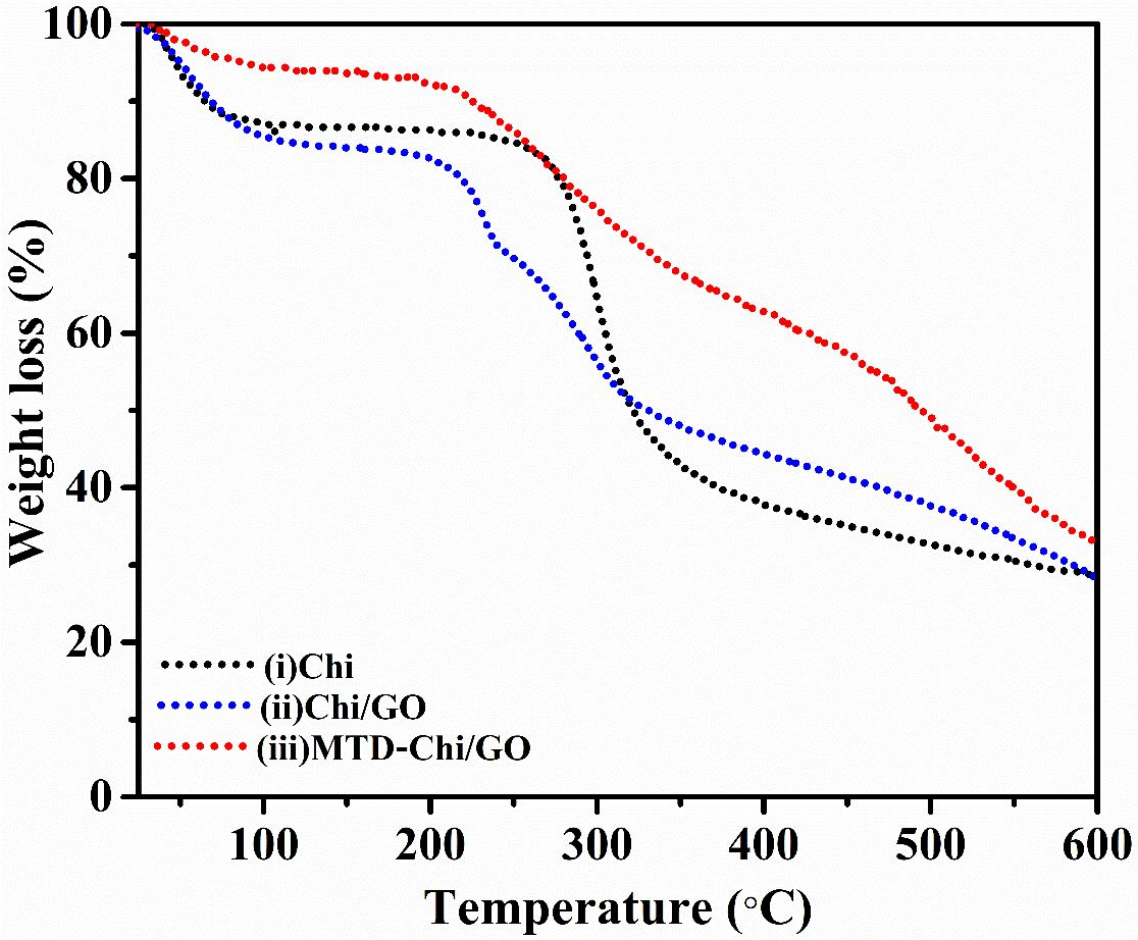

Figure. S1. TGA spectra of **(i)** Chi, **(ii)** Chi/GO and **(iii)** MTD-Chi/GO bio-nanocomposite beads.

2. Digital photograph of pure chitosan, MTD-Chi and MTD-Chi/GO bio-nanocomposite beads

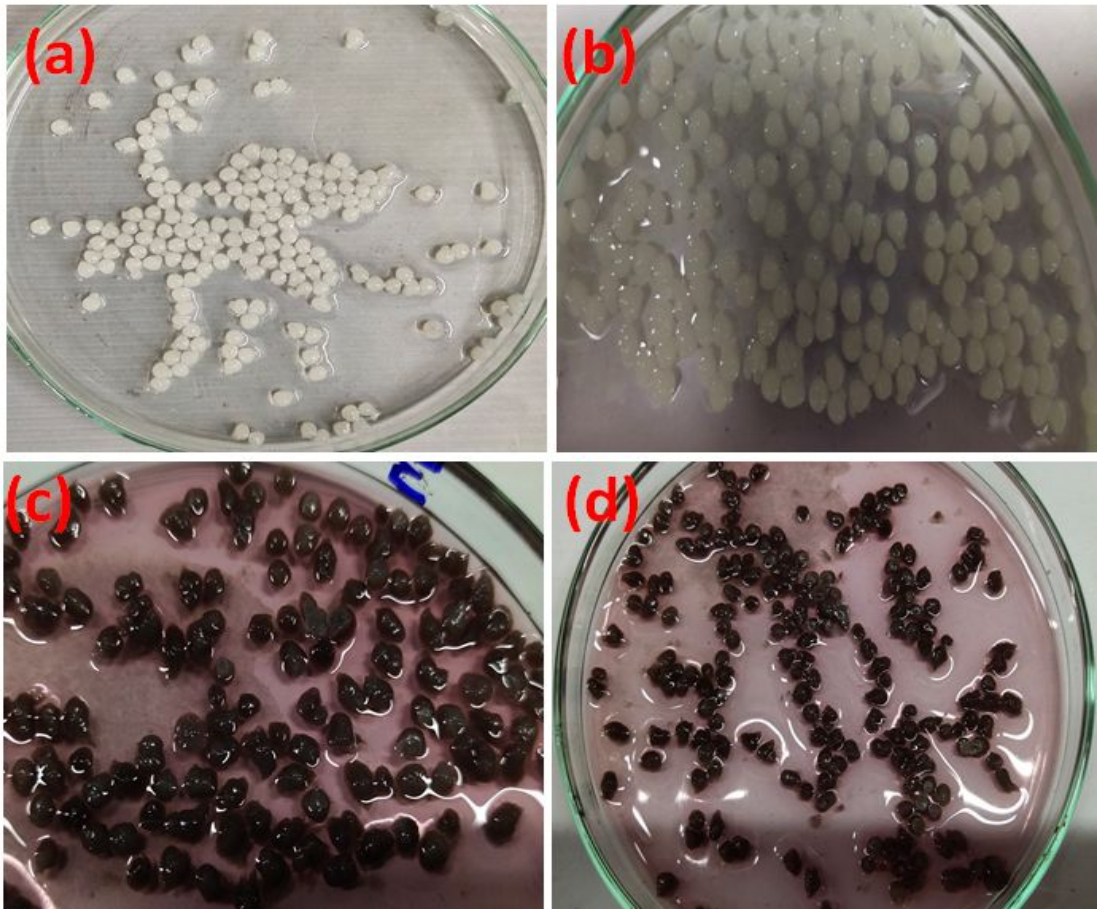

Figure: S2. Digital photograph showing of **(a)** Pure chitosan **(b)** MTD-Chi and **(c-d)** MTD-Chi/GO bio-nanocomposite beads.

3. Drug release kinetics

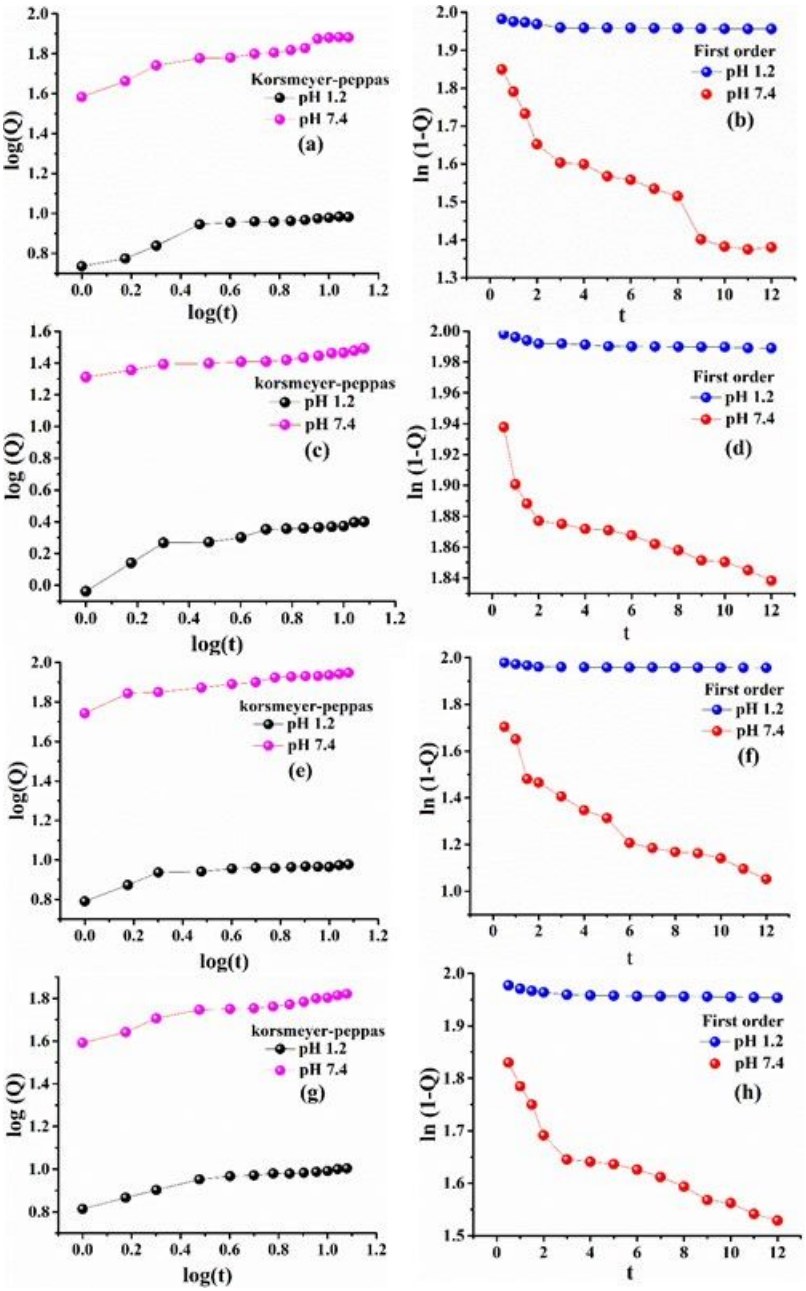

Figure. S3. Drug release kinetics of **(a** and **b)** *Korsmeyer-pappas* & *First-order reaction* of **MC6, (c** and **d)** *Korsmeyer-pappas* & *First-order reaction* of **MC8, (e** and **f)** *Korsmeyer-pappas* & *First-order reaction* of **MCG12, (g** and **h)** *Korsmeyer-pappas* & *First-order reaction* of **MCG16** at pH 7.4 and pH 1.2 respectively.