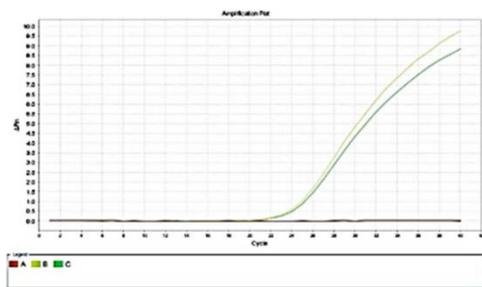
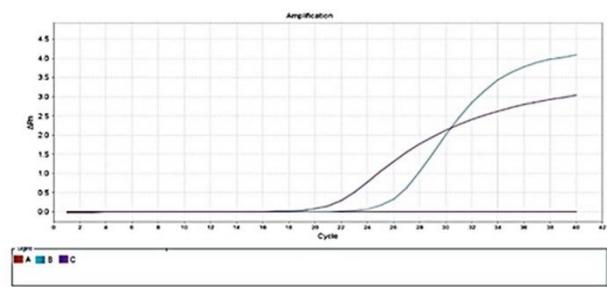


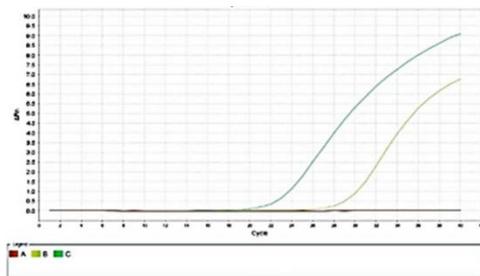
Figure S1. A schematic diagram of the distribution of meropenem and ZnO-NPs concentration in a 96-well plate



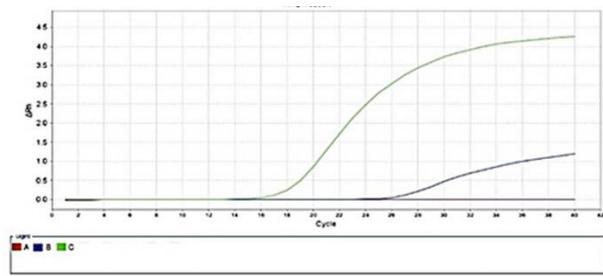
(a)



(b)



(c)



(d)

Figure S2. Data sheet of RT-PCR showing amplification curves of (a) 16s rRNA structural genes and biofilm genes (b) *fliC*, (c) *lasR* and (d) *psIA* of carbapenem-resistant *P. aeruginosa* PU15.