

# Carboxymethyl chitosan microgels for sustained delivery of Vancomycin and long-lasting antibacterial effects

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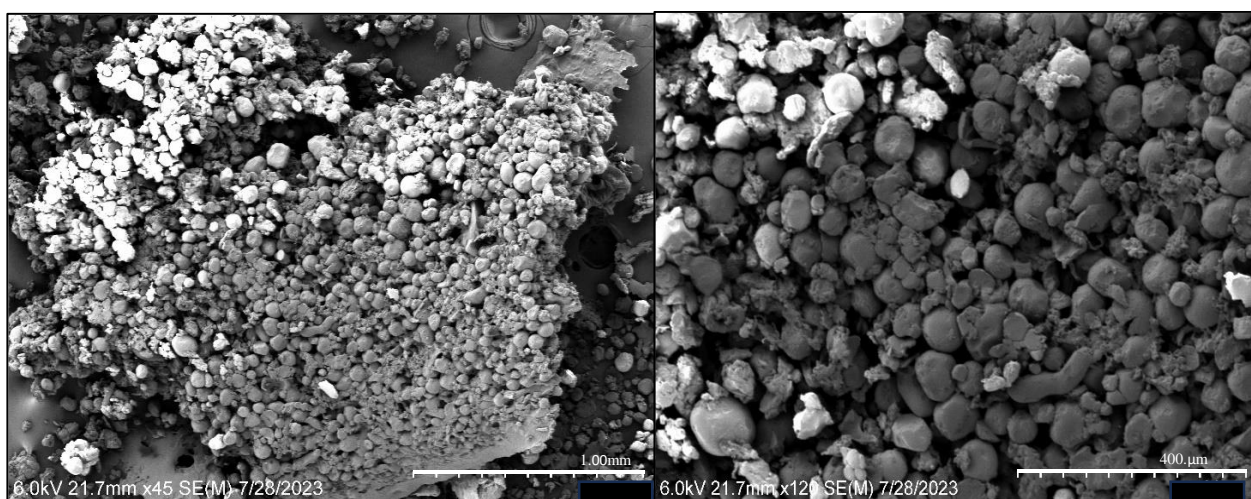
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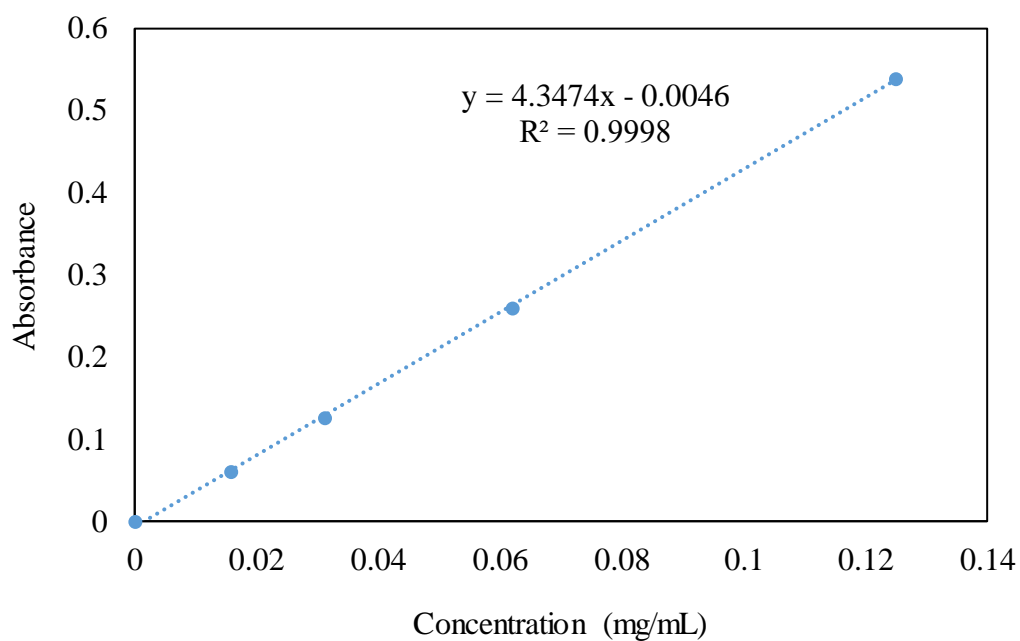
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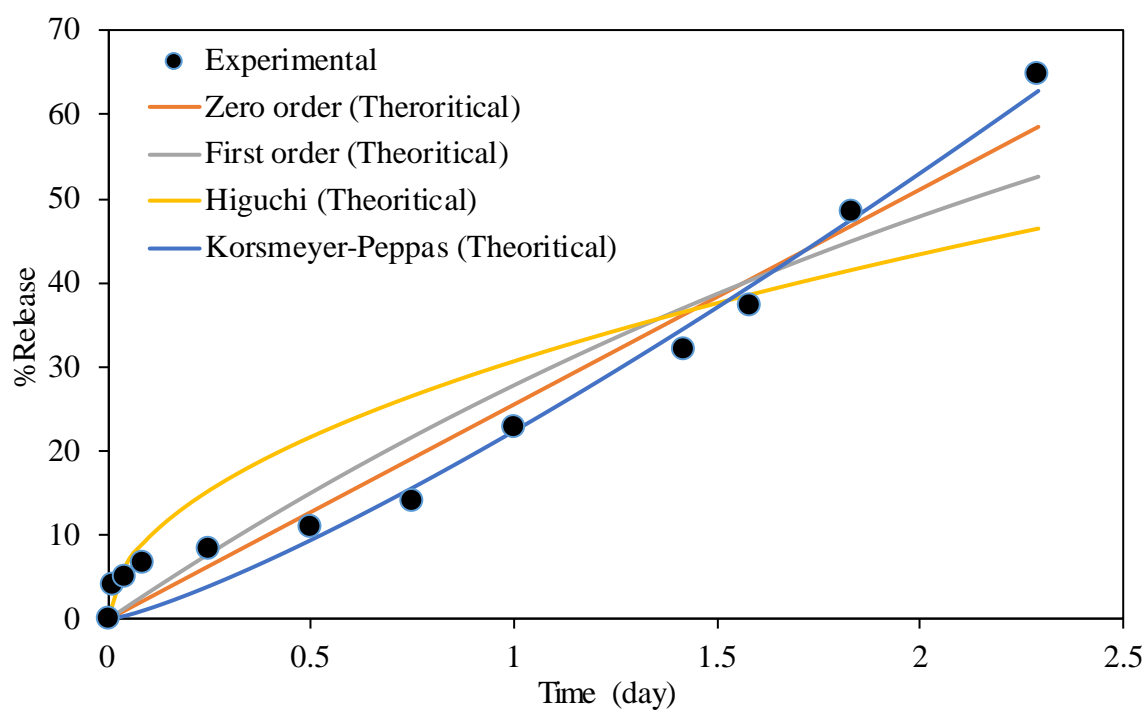
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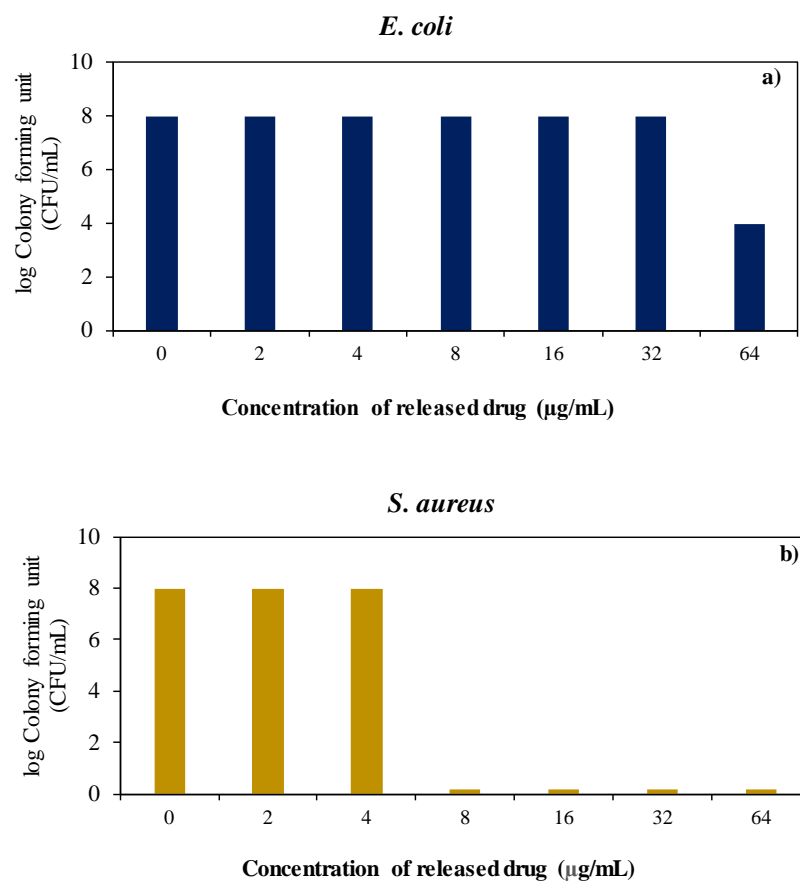
**Figure S1.** SEM images of Van@p(CMCh) microgels at different magnifications.



**Figure S2.** The Calibration curve of Vancomycin (Van) in phosphate-buffered saline solution at 280 nm.



**Figure S3.** The Van release% from Van@CMCh microgels vs time plots for related kinetic models.



**Figure S4.** Colony forming units (CFU/mL) of (a) *E. coli* and (b) *S. aureus* strains versus the concentration of the released amount of Van from Van@CMCh microgels at 24h incubation time.