

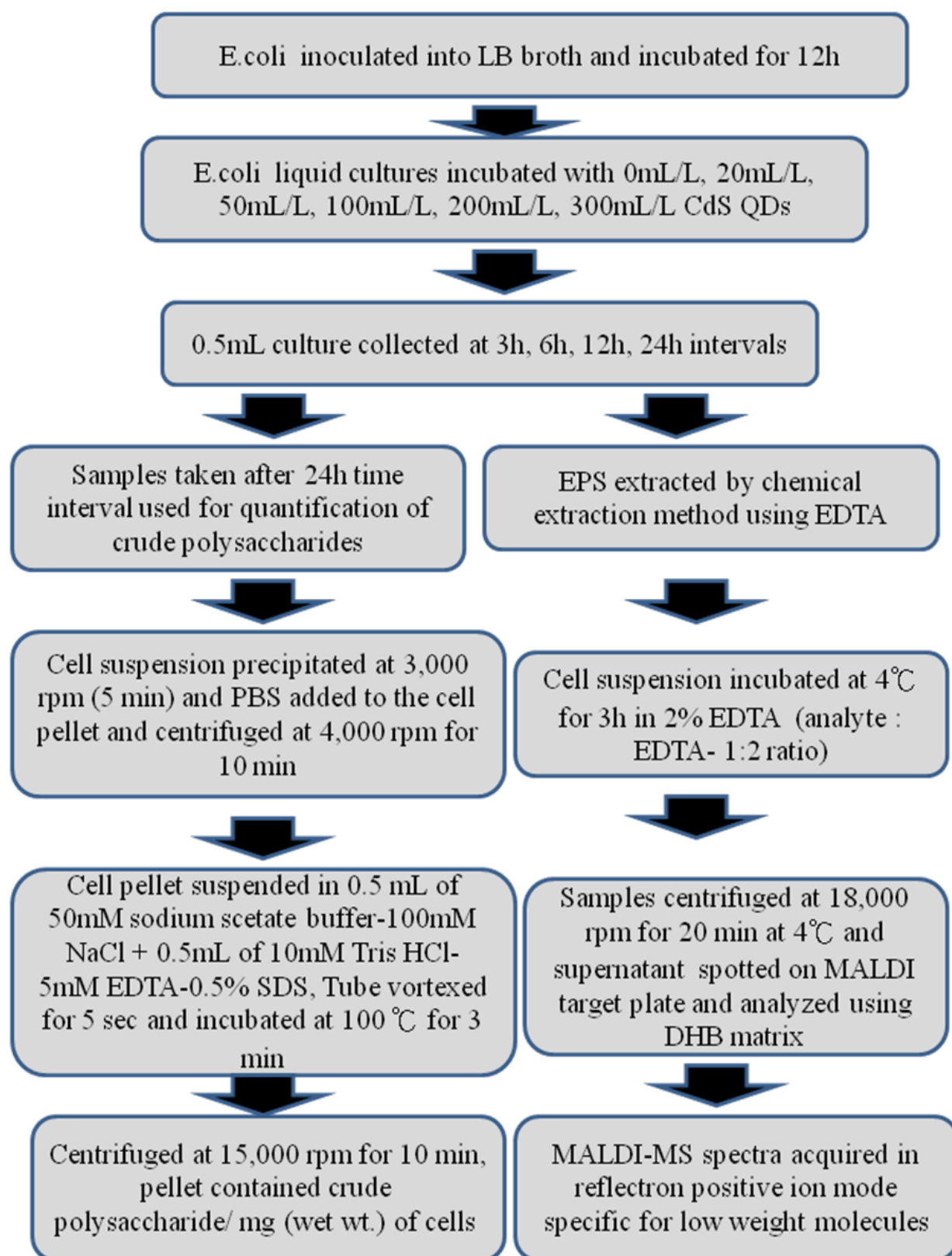
Supporting Figures Legends

Fig. S1. Schematic diagram giving details of the methodology followed.

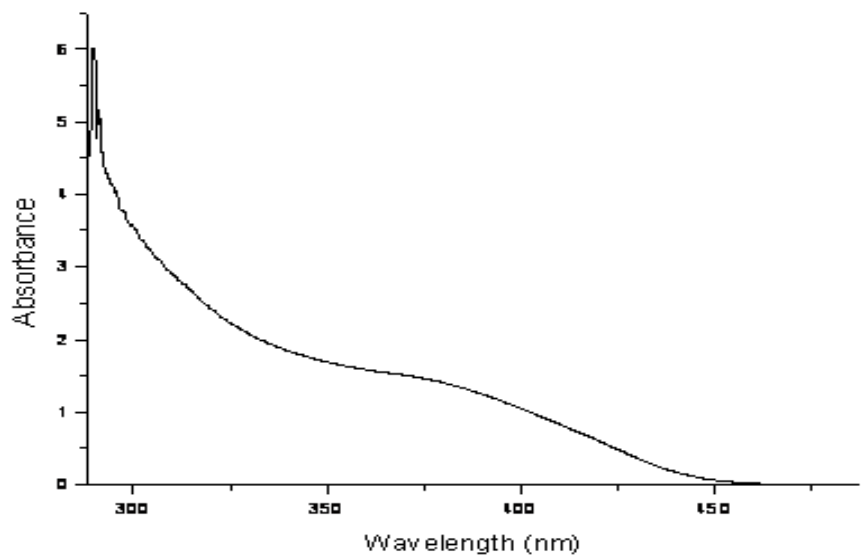
Fig. S2(A). Graph showing UV-Vis spectra of synthesized CdS QDs. (B) Graph showing fluorescence spectrophotometric spectra showing emission at 590nm. (C) Photographs showing colorless appearance under (a) normal light and (b) typical greenish yellow color on near UV light illumination. (D) TEM micrograph of CdS QDs showing sizes in the range of 3-9nm; inset showing particle size distribution.

Fig. S3. MALDI-MS spectra showing no disappearance of polysaccharide peaks on prolonged incubation (a) 0h (b) 3h (c) 6 h (d) 12h (e) 24h in the absence of CdS QDs (in control) confirming that the disappearance of peaks when incubated for longer time (in 20ml/L concentration of CdS QDs) was solely due to the activity of CdS QDs.

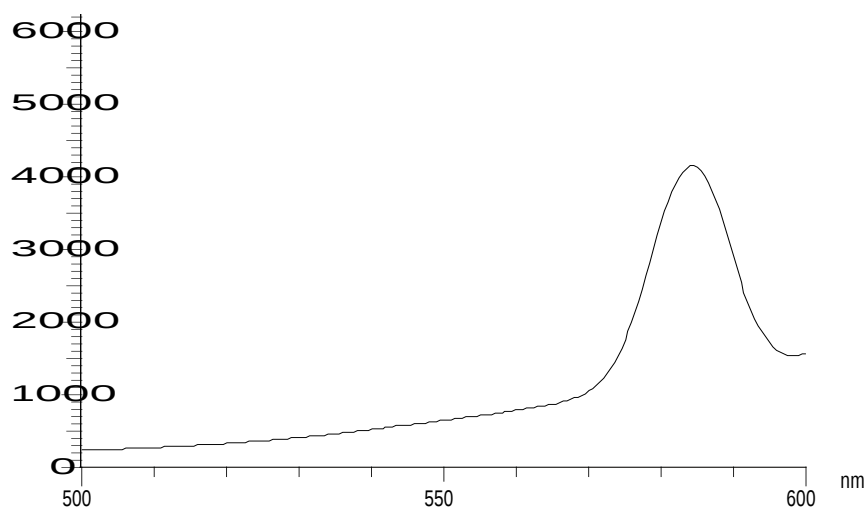
Fig.S1



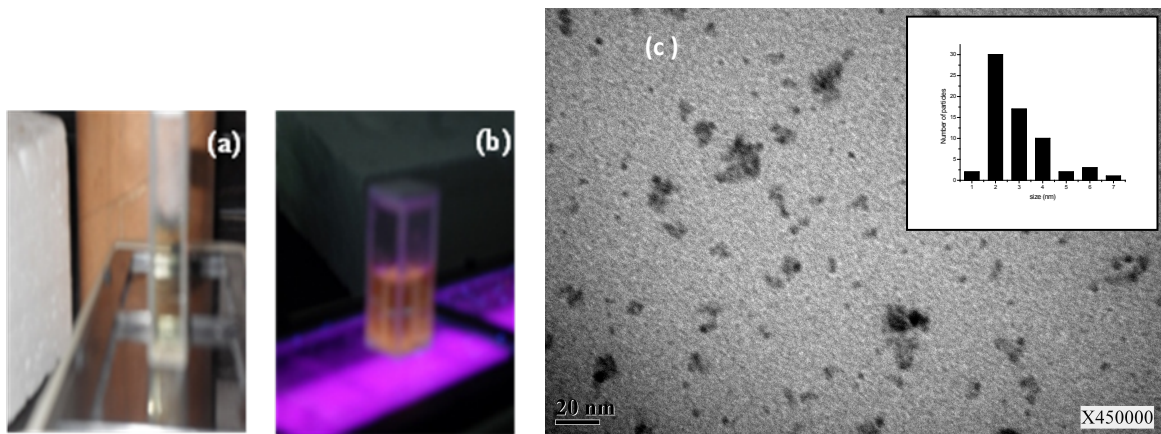
S2A.



S2B



S2C



S3.

