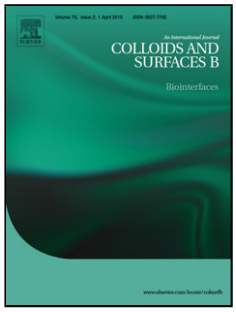

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RNA Purification from *Escherichia coli* Cells Using Boronated Nanoparticles

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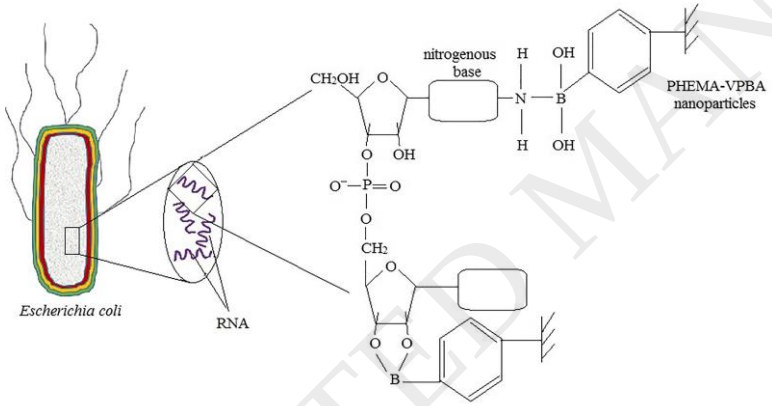
Graphical abstract



Highlights

- P(HEMA-VPBA) nanoparticles were prepared to be used in RNA binding.
- Maximum RNA binding capacity of the P(HEMA-VPBA) nanoparticles was 172 mg/g.
- RNA was extracted from *E. coli* cells using the P(HEMA-VPBA) nanoparticles.
- The P(HEMA-VPBA) nanoparticles are good candidates for obtaining pure RNA.