

## Supporting Information

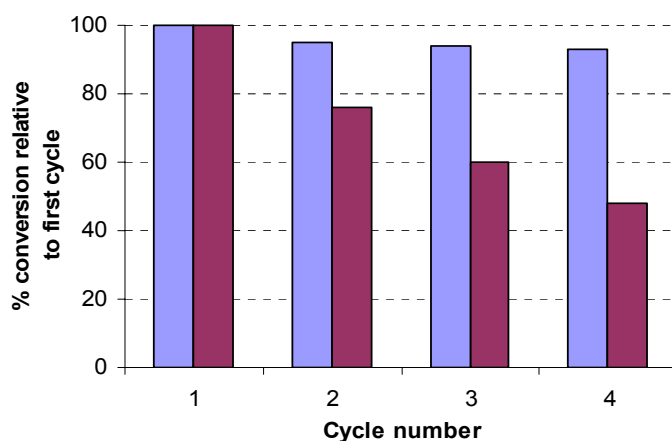
### Site-selective Immobilisation of Functional Enzymes on to Polystyrene Nanoparticles

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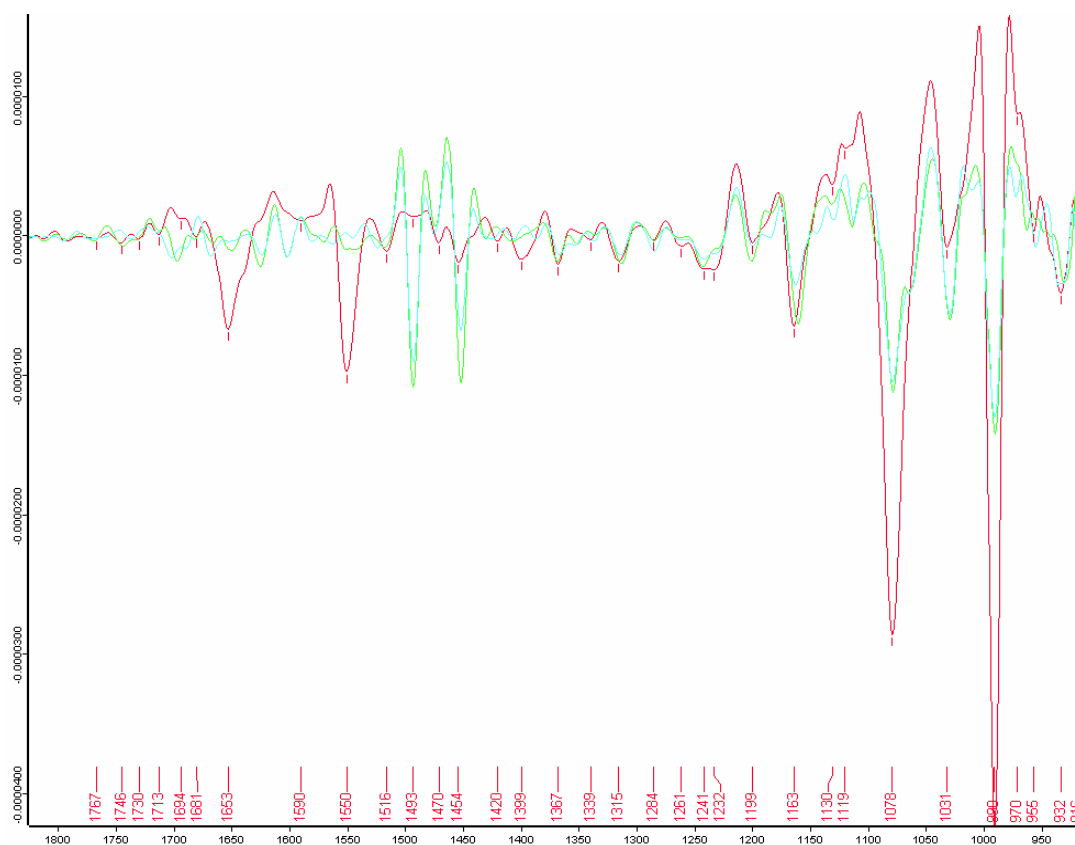
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**Figure S1:** Graph of % conversion relative to cycle 1 by immobilised ybbR-AMDase over four reaction cycles where the enzyme was immobilised in the presence of Sfp (blue bars) and with Sfp omitted (red bars).



**Figure S2:** Second derivative of the FT-IR spectra of ybbR-AMDase in solution (red), (ybbR-AMDase)-Ppant-NP (green) and CoA-NP (pale blue). The amide I and II bands at 1653 and 1550  $\text{cm}^{-1}$  are extremely small and not easily distinguishable from the background, indicating the amount of protein was at or near the detection limit for this method.