Electronic Supplementary Information

A Green, Facile, and Rapid Method for Microextraction and Raman Detection of Titanium Dioxide Nanoparticles from Milk Powder

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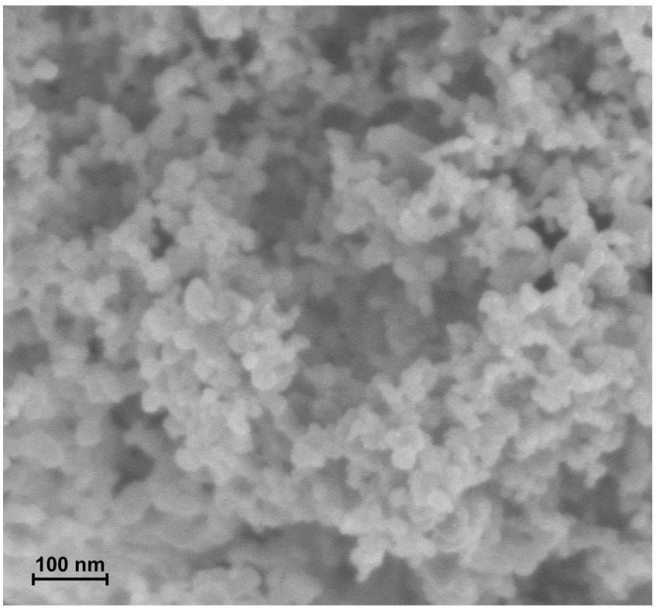
A



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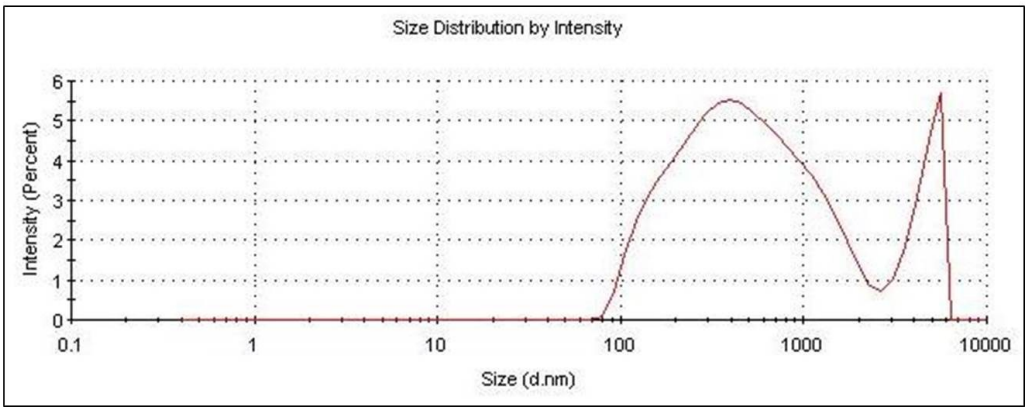

Fig. S1 (A) SEM image of 21 nm TiO_2 nanopowder. (B) Size distribution data of TiO_2 NPs aqueous suspension.

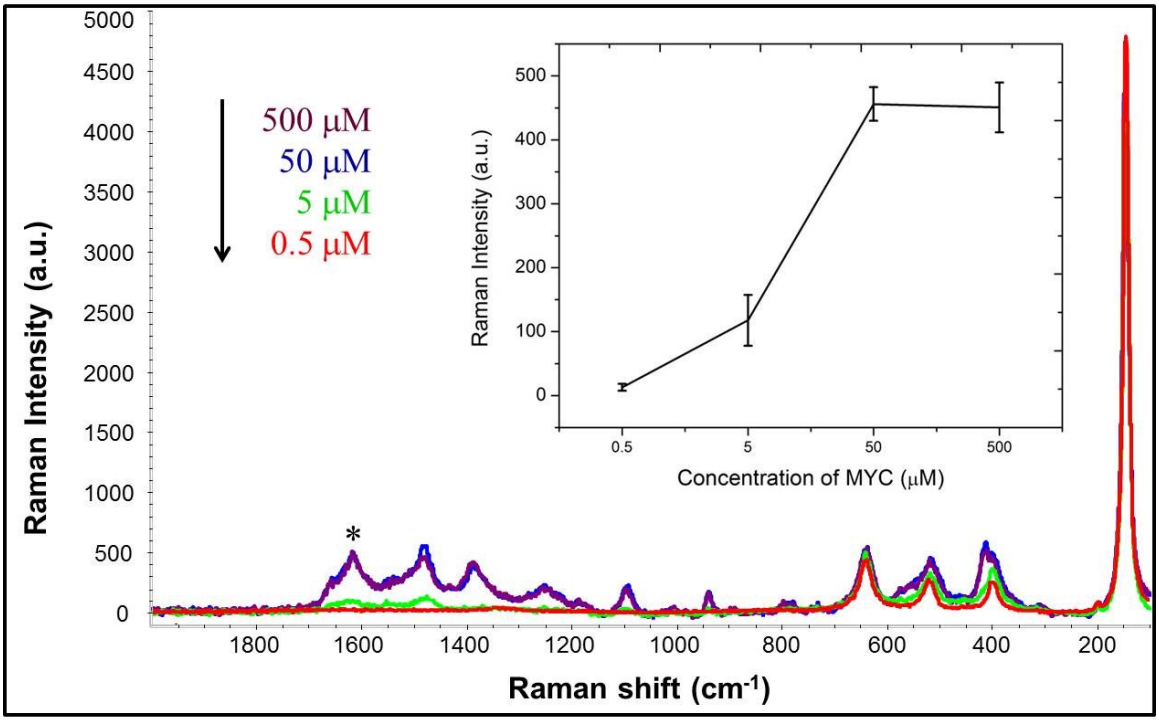

Fig. S2 The dependence of SERS signals on the concentration of MYC adsorbed on TiO_2 NPs. Inset: Plot of SERS intensity of MYC at 1615 cm^{-1} corresponding to various MYC concentration.

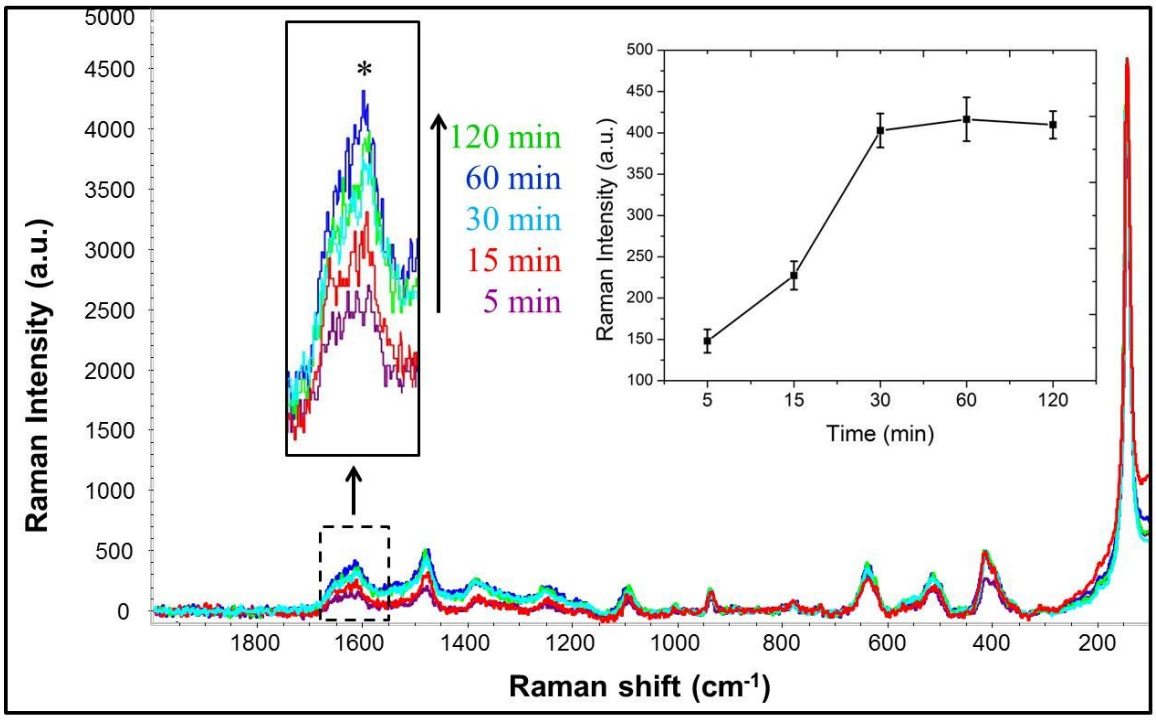

Fig. S3 The dependence of SERS signals on the incubation time of MYC adsorbed on TiO_2 NPs. The concentration of MYC was 500 μM. Inset: Plot of SERS intensity of MYC at 1615 cm^{-1} corresponding to various incubation time.

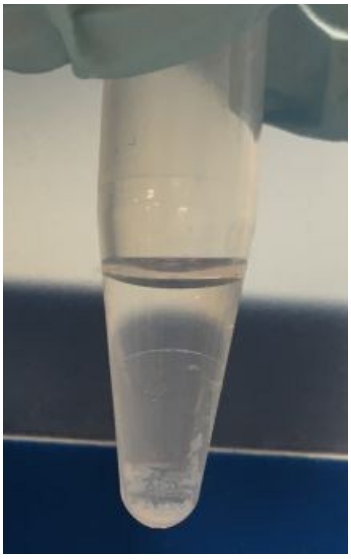

Fig. S4 Photograph of TiO_2 NPs without MYC treatment after 30 min phase separation.