Application of Nylon6/Polypyrrole core-shell nanofibre mat as solid-phase extraction adsorbent for the determination of atrazine in environmental water samples

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Supplemental material

3.3. Optimisation of SPE conditions

Figure 1 Effect of amount of adsorbent on recoveries of atrazine. Conditions: amount of adsorbent, 3.0mg; volume of the sample, 10 mL; concentration of sample solution, 5ng/mL; concentration of NaCl, 10% (W/V); pH of the sample, 7; flow rate of the sample, 2.5 mL/min.

Figure 2 Effect of amount of adsorbent on recoveries of atrazine. Conditions: volume of the sample, 10 mL; concentration of sample solution, 5ng/mL; concentration of NaCl, 10% (W/V); pH of the sample, 7; flow rate of the sample, 2.5 mL/min; elution, 400 μ L acetonitrile.

Figure 3 Effect of concentration of NaCl on recoveries of atrazine. Conditions: amount of adsorbent, 3.0mg; volume of the sample, 10 mL; concentration of sample solution, 5ng/mL; pH of the sample, 7; flow rate of the sample, 2.5 mL/min; elution, 400 μ L acetonitrile.

Figure 4 Effect of pH on recoveries of atrazine. Conditions: amount of adsorbent, 3.0mg; volume of the sample, 10 mL; concentration of sample solution, 5ng/mL; concentration of NaCl, 10% (W/V); flow rate of the sample, 2.5 mL/min; elution, 400 μ L acetonitrile.