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Determination of norfloxacin content using bovine serum albumin as a fluorescence probe by synchronous fluorescence spectroscopy

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Abstract

Antibiotics residues have a potentially threaten to people's health and has become a hotspot around the world. In this paper, the binding characteristics of the bovine serum albumin (BSA) to Norfloxacin (NFX) were studied by synchronous fluorescence spectroscopy under simulative physiological conditions. The synchronous fluorescence spectra of interaction system was obtained under the different concentration of NFX. The relationship between the fluorescence intensity of NFX-BSA system and the content of NFX was discussed. Results show that NFX can interact with BSA, the endogenous fluorescence of BSA appeared regular

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