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Behavior of DOXORUBICIN INVESTIGATED by FLUORESCENCE SPECTROSCOPY

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Abstract

Fluorescence is a complex optical process based on absorption and emission of light. This phenomenon is widely exploited in bioanalysis due to the intrinsic fluorescence of the analytes or fluorescent tags conjugated to the molecules of interest. Even though the fluorescence detection is extremely sensitive the properties are strongly dependent on environment surrounding the fluorophore.

In this research, the behavior of doxorubicin under different conditions was studied using fluorescence spectroscopy. Sodium acetate, sodium phosphate, sodium borate, ethanol, acetonitrile, and dimethyl sulfoxide were used to monitor the behavior of doxorubicin.

Program

1. Introduction
2. doxorubicin and fluorescence
3. detection of doxorubicin
4. Summary

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