

ABSTRACT

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Title of Thesis HPLC analysis of isoxicam in blood with using fluorimetric detection

This thesis is engaged in HPLC analysis of isoxicam in whole blood. For sample pretreatment solid – phase extraction was used. The resulting extracts were subjected to HPLC analysis. The mobile phase used was a mixture of methanol - phosphoric acid 0.1% (70 : 30 v/v), pH 3. The separation was performed on column Separon SGX C₁₈ 150 x 3,0 mm I.D. (7µm). Fluorimetric detection was set at excitation wavelenght 335 nm and emission wavelenght 470 nm. Diflunisal was used as internal standard. Calibration curve was constructed and verified with four samples. Then model samples were analysed. The method has been validated in respect of specificity, precision, accuracy, linearity, limit of detection, limit of quantification, and robustness.