ABSTRACT

SYNTHESIS OF ARYLOXYDERIVATIVES OF AZAPHTHALOCYANINES

Dominika Ficnerová

Charles University in Prague, Faculty of Pharmacy in Hradec Králové

Department of Pharmaceutical Chemistry and Drug Control

This work deals with the synthesis of aryloxyderivatives of azaphthalocyanines. The theoretical part discusses the characteristics, advantages, disadvantages and use different types of fluorophores. At the same time is divided into different groups according to their chemical structure. Methodology section describes the ways in which it is possible to prepare phthalocyanines azaanalogues and the work also briefly describes the properties and reactivity of these substances. In the experimental part of this work is described, which methods and procedures can be precursors for the preparation azaphthalocyanines prepare. It is also described how to proceed with the actual cyclization reaction, which can be prepared azaphthalocyanines. Products were characterized by melting point, NMR, and IR spectra. The cyclization reaction products were measured value of fluorescence and singlet oxygen production.