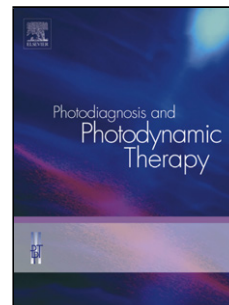


Accepted Manuscript

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PII: S1572-1000(17)30286-7
DOI: <http://dx.doi.org/10.1016/j.pdpdt.2017.09.009>
Reference: PDPDT 1023

To appear in: *Photodiagnosis and Photodynamic Therapy*

Received date: 28-4-2017
Revised date: 7-9-2017
Accepted date: 17-9-2017

Please cite this article as: Zarubaev Vladimir V, Kris'ko Tatyana C, Kriukova Elelna V, Muraviova Tatyana D. Effect of albumin on the fluorescence quantum yield of porphyrin -based agents for fluorescent diagnostics. *Photodiagnosis and Photodynamic Therapy* <http://dx.doi.org/10.1016/j.pdpdt.2017.09.009>

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Effect of albumin on the fluorescence quantum yield of porphyrin -based agents for fluorescent diagnostics

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Highlights

- Three fluorescence diagnostic agents (FDAs), Photolon, Fotoditazin and Dimegin, are compared for fluorescence quantum yield in PBS and in presence of albumin.
- Chlorine-based FDAs possess higher quantum yield in PBS comparing to porphyrin-derived Dimegin.
- In presence of albumin, all three FDAs demonstrate similar quantum yield.
- The results obtained are important for the practice of fluorescent diagnostics of tumors.

Abstract

Background: Among modern methods of diagnostics of tumors, the fluorescent methods are considered ones of the most prospective. Diagnostic agents (DAs) spread throughout the body by the bloodstream, so, the DA molecules are often transported by albumins and can be affected by these proteins. In our study we

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