Title: Radiolabeled Block Copolymer Micelles for Image-guided Drug Delivery

Author: Elisabete Ribeiro Irina Alho Fernanda Marques Lurdes Gano Isabel Correia João D.G. Correia Sandra Casimiro Luís Costa Isabel Santos Célia Fernandes

PII: S0378-5173(16)31055-9
DOI: http://dx.doi.org/doi:10.1016/j.ijpharm.2016.11.004
Reference: IJP 16207

To appear in: *International Journal of Pharmaceutics*

Received date: 12-7-2016
Revised date: 7-10-2016
Accepted date: 2-11-2016

Please cite this article as: Ribeiro, Elisabete, Alho, Irina, Marques, Fernanda, Gano, Lurdes, Correia, Isabel, Correia, João D.G., Casimiro, Sandra, Costa, Luís, Santos, Isabel, Fernandes, Célia, Radiolabeled Block Copolymer Micelles for Image-guided Drug Delivery.International Journal of Pharmaceutics http://dx.doi.org/10.1016/j.ijpharm.2016.11.004

Radiolabeled Block Copolymer Micelles for Image-guided Drug Delivery

Elisabete Ribeiro [a], Irina Alho [b], Fernanda Marques [a], Lurdes Gano [a], Isabel Correia [c], João D. G. Correia [a], Sandra Casimiro [b], Luís Costa [b], Isabel Santos [a], Célia Fernandes [a,*]

[a] Centro de Ciências e Tecnologias Nucleares (C2TN), Instituto Superior Técnico, Universidade de Lisboa, Estrada Nacional 10 (km 139,7), 2695-066 Bobadela LRS, Portugal

[b] Instituto de Medicina Molecular, Faculdade de Medicina, Universidade de Lisboa, Av. Prof. Egas Moniz, 1649-028 Lisboa, Portugal.

[c] Centro de Química Estrutural, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal.

*** Corresponding author**

Célia Fernandes,

Centro de Ciências e Tecnologias Nucleares (C2TN), IST, UL

Estrada Nacional 10 (ao km 139,7),

2695-066 Bobadela LRS

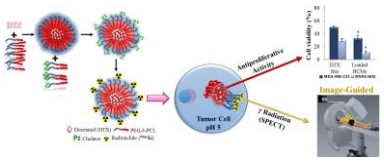
Portugal

e-mail: celiaf@ctn.tecnico.ulisboa.pt

telephone number: +351 21 994 6226

fax number: +351 21 994 6016

Graphical abstract



Abbreviations: DTX- Docetaxel, BCMs – Block copolymer micelles, PEG - Poly(ethylene glycol), PCL - poly(ε-caprolactone), PB – phosphate buffer, DLS - dynamic light scattering, TEM - transmission electron microscopy, CMC - critical micelle concentration, LC - DTX loading content, LE - DTX loading efficiency.