

Supporting information

Hypericin-loaded lipid nanocapsules for the photodynamic cancer therapy *in vitro*

Alexandre Barras,¹ Luc Boussekey,² Emmanuel Courtade³ and Rabah Boukherroub^{1*}

¹ *Institut de Recherche Interdisciplinaire (IRI), USR CNRS 3078, Université Lille 1, Parc de la Haute Borne, 50 Avenue de Halley, BP 70478, 59658 Villeneuve d'Ascq, France.*

² *Laboratoire de Spectrochimie Infrarouge et Raman, UMR CNRS 8516, Université Lille 1, 59655 Villeneuve d'Ascq, France.*

³ *Laboratoire de Physique des Lasers, Atomes et Molécules, UMR CNRS 8523, Université Lille 1, 59655 Villeneuve d'Ascq, France.*

Influence of Hy loading on singlet oxygen generation.

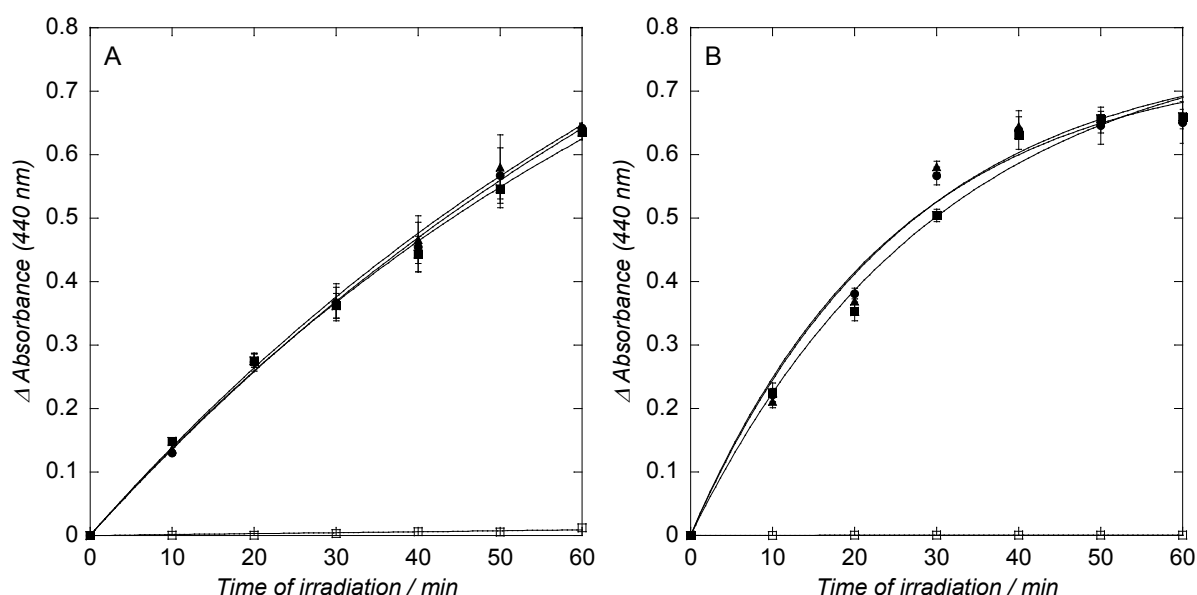


Figure S1. Generation of singlet oxygen (ΔA at 440 nm) from photo-irradiated free Hy (DMSO 1%) and 0.02% Hy-loaded LNC at 0.5 μM (A) and 1 μM (B) in a 50 mM phosphate

buffer (pH = 7.4) as a function of irradiation time. *Open squares*, free Hy; *black squares*, LNC25; *black triangles*, LNC50; *black circles*, LNC100.

Live cell irradiation and imaging by video-microscopy.

Movies S1 and S2. Live cell irradiation and imaging by video-microscopy. Videos of HeLa cell culture (**S1**) and HEK cell culture (**S2**) after incubation with 0.04% Hy-loaded LNC25 (5 h) at 1 μ M irradiated during 15 min at 580 nm with $\sim 9 \mu$ W with a 320 μ m FWHM light spot.