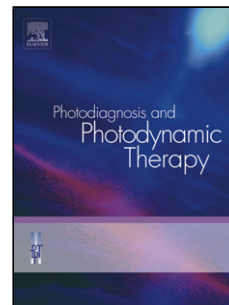


Accepted Manuscript

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PII: S1572-1000(18)30154-6
DOI: <https://doi.org/10.1016/j.pdpdt.2018.06.020>
Reference: PDPDT 1196

To appear in: *Photodiagnosis and Photodynamic Therapy*

Received date: 14-5-2018
Revised date: 22-6-2018
Accepted date: 27-6-2018

Please cite this article as: Baigorria E, Reynoso E, Alvarez MG, Milanesio ME, Durantini EN, Silica nanoparticles embedded with water insoluble phthalocyanines for the photoinactivation of microorganisms, *Photodiagnosis and Photodynamic Therapy* (2018), <https://doi.org/10.1016/j.pdpdt.2018.06.020>

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Silica nanoparticles embedded with water insoluble phthalocyanines for the photoinactivation of microorganisms

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Highlights

- Silica nanoparticles (SiNPs) were used as carrier of hydrophobic phthalocyanines
- SiNPs-Pc produced singlet molecular oxygen $O_2(^1\Delta_g)$
- Formation of superoxide anion radical was found in aqueous medium
- SiNPs-Pc were able to photoinactivate microorganisms

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