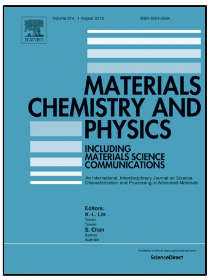
Accepted Manuscript



Physicochemical characteristics and antibacterial effects of silver nanoparticles produced using the aqueous extract of *Ilex paraguariensis*

Ariane Pandolfo Silveira, Cínthia Caetano Bonatto, Cláudio Afonso Pinho Lopes, Luis Miguel Ramirez Rivera, Luciano Paulino Silva

PII:	S0254-0584(18)30473-5
DOI:	10.1016/j.matchemphys.2018.05.068
Reference:	MAC 20683
To appear in:	*Materials Chemistry and Physics*
Received Date:	27 July 2017
Accepted Date:	25 May 2018

Please cite this article as: Ariane Pandolfo Silveira, Cínthia Caetano Bonatto, Cláudio Afonso Pinho Lopes, Luis Miguel Ramirez Rivera, Luciano Paulino Silva, Physicochemical characteristics and antibacterial effects of silver nanoparticles produced using the aqueous extract of *Ilex paraguariensis*, *Materials Chemistry and Physics* (2018), doi: 10.1016/j.matchemphys.2018.05.068

Physicochemical characteristics and antibacterial effects of silver nanoparticles produced using the aqueous extract of *Ilex paraguariensis*

Ariane Pandolfo Silveira[1,2], Cínthia Caetano Bonatto[1,3,4], Cláudio Afonso Pinho Lopes[5], Luis Miguel Ramirez Rivera[2], Luciano Paulino Silva[1,2,3,5*]

[1]Embrapa Genetic Resources and Biotechnology, PBI, Laboratory of Nanobiotechnology (LNANO), Brasília, 70770-917, DF, Brazil

[2]University of Brasília, Postgraduate Program in Nanoscience and Nanobiotechnology, Brasília,
70910-900, DF, Brazil

[3]University of Brasília, Postgraduate Program in Animal Biology, Brasília, 70910-900, DF, Brazil

[4]TecSinapse, Applied Research, São Paulo, 04583-906, SP, Brazil

[5]University of Brasília, Postgraduate Program in Molecular Biology, Brasília, 70910-900, DF, Brazil

*E-mail: luciano.paulino@embrapa.br; lucianopaulinosilva@gmail.com