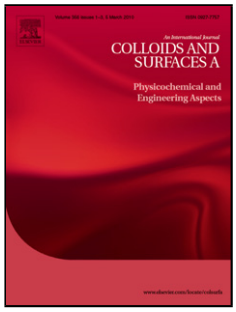


Title: Evaluation of the permeability of silver nanoparticles in polymer films of sulfonated polystyrene-co-acrylic acid

Authors: Marcos Marques da Silva Paula, Helton Jeremias de Souza, Carina Búrigo, Jamile Thön Langbehn, Alice Scarabelot Baesso, Luciano da Silva, Paulo Roberto Paes da Silva, Roberto Benavides, Gabriel Alonso-Núñez, Virginia Collins

PII: S0927-7757(17)30096-1
DOI: http://dx.doi.org/doi:10.1016/j.colsurfa.2017.01.060
Reference: COLSUA 21324

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 10-11-2016
Revised date: 13-1-2017
Accepted date: 20-1-2017

Please cite this article as: Marcos Marques da Silva Paula, Helton Jeremias de Souza, Carina Búrigo, Jamile Thön Langbehn, Alice Scarabelot Baesso, Luciano da Silva, Paulo Roberto Paes da Silva, Roberto Benavides, Gabriel Alonso-Núñez, Virginia Collins, Evaluation of the permeability of silver nanoparticles in polymer films of sulfonated polystyrene-co-acrylic acid, Colloids and Surfaces A: Physicochemical and Engineering Aspects http://dx.doi.org/10.1016/j.colsurfa.2017.01.060

# Evaluation of the permeability of silver nanoparticles in polymer films of sulfonated polystyrene-co-acrylic acid

Marcos Marques da Silva Paula[1*], Helton Jeremias de Souza[3], Carina Búrigo[3], Jamile Thön Langbehn[3], Alice Scarabelot Baesso[3], Luciano da Silva[2], Paulo Roberto Paes da Silva[3], Roberto Benavides[4], Gabriel Alonso-Núñez[5], Virginia Collins[6]

[1]Laboratório de Tecnologia Farmacêutica, Programa de Pós-Graduação em Ciências da Saúde, Universidade do Sul de Santa Catarina, 88704-9000 Tubarão, SC, Brazil

[2]Arranjo Promotor de Inovação em Nanotecnologia - API.nano, Campus Universitário, UFSC, Setor C - Pantanal, Florianópolis - SC, 88040-970

[3]Laboratório de Síntese de Complexos Multifuncionais, Universidade do Extremo Sul Catarinense, 88806-000 Criciúma, SC, Brazil

[4]Centro de Investigación en Química Aplicada, Blvd. Enrique Reyna H. 140, Saltillo, Coahuila, 25294 México

[5]Universidad Nacional Autónoma de México, Centro de Nanociencias y Nanotecnología. Km. 107 Carretera Tijuana-Ensenada, 22800 Ensenada, B. C., México

[6]Departamento de Materiales Nanoestructurados, Centro de Investigación en Materiales Avanzados, S.C., Miguel de Cervantes 120, Chihuahua, Chih., 31109 México

***Correspondence to:**

**Prof. Marcos Marques da Silva Paula, Ph.D.**

University of Southern Santa Catarina – UNISUL

Av. José Acácio Moreira, 787 Bairro Dehon – Postal Box: 370

88704-900 – Tubarão, SC - Brazil

Phone: +55 48 3621-3363 Fax: +55 48 3621-3036 Cell Phone: +55 48 99984-9947

E-mail: bocaocao@gmail.com