

Accepted Manuscript

Title: Amino acid mediated synthesis of silver nanoparticles and preparation of antimicrobial agar/silver nanoparticles composite films

Author: Shiv Shankar Jong-Whan Rhim



PII: S0144-8617(15)00416-6
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2015.05.018>
Reference: CARP 9921

To appear in:

Received date: 28-3-2015
Revised date: 30-4-2015
Accepted date: 4-5-2015

Please cite this article as: Shankar, S., and Rhim, J.-W., Amino acid mediated synthesis of silver nanoparticles and preparation of antimicrobial agar/silver nanoparticles composite films, *Carbohydrate Polymers* (2015), <http://dx.doi.org/10.1016/j.carbpol.2015.05.018>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

- 1 ➤ AgNPs were synthesized using amino acids as reducing and capping agents.
- 2 ➤ Agar/AgNPs nanocomposite films were prepared by solvent casting method.
- 3 ➤ Nanocomposite films exhibited a UV screening effect without sacrificing the
- 4 mechanical and WVP properties.
- 5 ➤ All agar/AgNPs composite films showed strong antimicrobial activity against *E. coli*
- 6 and *L. monocytogenes*.
- 7

Download English Version:

<https://daneshyari.com/en/article/7788167>

Download Persian Version:

<https://daneshyari.com/article/7788167>

[Daneshyari.com](https://daneshyari.com)