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Optimization and characterization of nisin-loaded alginate-chitosan nanoparticles with antimicrobial activity in lean beef

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PII: S0023-6438(18)30015-X

DOI: [10.1016/j.lwt.2018.01.015](https://doi.org/10.1016/j.lwt.2018.01.015)

Reference: YFSTL 6779

To appear in: *LWT - Food Science and Technology*

Received Date: 14 August 2017

Revised Date: 26 December 2017

Accepted Date: 5 January 2018

Please cite this article as: Zimet, P., Mombrú, Á.W., Faccio, R., Brugnini, G., Miraballes, I., Rufo, C., Pardo, H., Optimization and characterization of nisin-loaded alginate-chitosan nanoparticles with antimicrobial activity in lean beef, *LWT - Food Science and Technology* (2018), doi: 10.1016/j.lwt.2018.01.015.

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1   **Optimization and characterization of nisin-loaded alginate-chitosan**  
2   **nanoparticles with antimicrobial activity in lean beef**

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