

Jun 22, 2020 Version 4

# 🌐 Cold-leaching extraction. A new methodology for obtaining inhibitory substances produced by bacteria in solid media. V.4

DOI

[dx.doi.org/10.17504/protocols.io.bhs3j6gn](https://dx.doi.org/10.17504/protocols.io.bhs3j6gn)

Catherine Cesa-Luna<sup>1</sup>, Alberto Aguayo-Acosta<sup>2</sup>, Antonino Baez<sup>1</sup>, Jesús Muñoz-Rojas<sup>1</sup>,  
Verónica Quintero-Hernández<sup>3</sup>

<sup>1</sup>Ecology and Survival of Microorganisms Group (ESMG), Laboratorio de Ecología Molecular Microbiana (LEMM), Centro de Investigaciones en Ciencias Microbiológicas (CICM), Instituto de Ciencias (IC), Benemérita Universidad Autónoma de Puebla (BUAP), Puebla, Pue., México.;

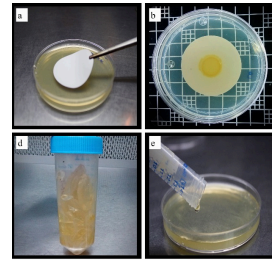
<sup>2</sup>Department of Microbiology and Immunology, Biological Sciences Faculty, Universidad Autónoma de Nuevo León, Ciudad Universitaria, San Nicolás de la Garza, Nuevo León, México.;

<sup>3</sup>CONACYT – ESGM, LEMM, CICM, IC-BUAP, Puebla, Pue., México.



**Catherine Cesa-Luna**

Benemerita Universidad Autónoma de Puebla



OPEN  ACCESS



**DOI:** [dx.doi.org/10.17504/protocols.io.bhs3j6gn](https://dx.doi.org/10.17504/protocols.io.bhs3j6gn)

**Protocol Citation:** Catherine Cesa-Luna, Alberto Aguayo-Acosta, Antonino Baez, Jesús Muñoz-Rojas, Verónica Quintero-Hernández 2020. Cold-leaching extraction. A new methodology for obtaining inhibitory substances produced by bacteria in solid media.. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.bhs3j6gn>

**License:** This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

**Protocol status:** Working

**We use this protocol and it's working**

**Created:** June 22, 2020

**Last Modified:** June 22, 2020

**Protocol Integer ID:** 38459



**Keywords:** Antimicrobial extract, Inhibitory substances, Nitrocellulose filter membranes,

## Abstract

Inhibitory substances can be obtained and purified by different methodologies. Free cell supernatants obtained by centrifugation and filtration are commonly used for evaluating antimicrobial metabolites produced by bacteria. In this work, a new methodology for obtaining antimicrobial metabolites is proposed, especially implemented for bacteria which are not able to produce these compounds in liquid media; based on the use of nitrocellulose filter membranes and solid culture media.

## Attachments



Cold leaching extrac...

384KB

