

# Antagonism assays to identify bacterial strains producing antimicrobial compounds.

**Dalia Molina-Romero, Antonino Baez, Miguel Castañeda-Lucio, Luis Ernesto Fuentes-Ramírez, María del Rocío Bustillos-Cristales, Osvaldo Rodríguez-Andrade, Yolanda Elizabeth Morales-García, Antonio Munive, Verónica Quintero-Hernández, Jesús Muñoz-Rojas**

## Abstract

Here we describe two methods for assessing the ability of one bacteria to inhibit the growth of another through the production of antimicrobial compounds. In the first assay, the double agar layer method, only the secreted substances but not the candidate antagonist bacteria interact with the sensitive microorganisms. In the second assay, the simultaneous inhibition method, both microorganisms are grown together allowing the competitive exclusion.

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## Materials

- ✓ Chloroform by Contributed by users
- ✓ PY-Ca growth medium by Contributed by users
- ✓ Glass Petri dishes 90 x 15 cm by Contributed by users
- ✓ Agar-Agar by Contributed by users
- ✓ Conical tubes of 50 ml of capacity by Contributed by users
- ✓ 96 well microplates by Contributed by users
- ✓ Refrigerated centrifuge for conical tubes 50 ml by Contributed by users
- ✓ Bacteriological incubator by Contributed by users
- ✓ Sterile glass slides by Contributed by users
- ✓ Laminar flow cabinet by Contributed by users
- ✓ Multipoint replicator by Contributed by users
- ✓ Inoculating Loops by Contributed by users
- ✓ Micropipetes of 1000 and 200 microliters by Contributed by users
- ✓ Micropipetes tips by Contributed by users

