



Oct 06, 2020

Protocol 3: Antiobiotic Resistance

In 1 collection

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¹UCSC

1 Works for me

This protocol is published without a DOI.

UCSC BME 22L

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PROTOCOL CITATION

2020. Protocol 3: Antiobiotic Resistance. protocols.io

https://protocols.io/view/protocol-3-antiobiotic-resistance-bkqckvsw

COLLECTIONS (i)

Protocols for CRISPR

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Sep 02, 2020

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41444

PARENT PROTOCOLS

Part of collection

Protocols for CRISPR

MATERIALS TEXT

Perishables

1 - Sterile Water Tube

Non-perishables

- 1 10-100 μL Variable Volume Adjustable Pipette
- 1 Box 1-200 μL Pipette Tips
- 14 Petri Plates
- 1 Microcentrifuge Tube Rack
- 5 Inoculation Loops
- 1 Bag of Microcentrifuge Tubes

BEFORE STARTING

The final step is testing the success of the bacterial transformation. There are multiple ways bacterial cells can become antibiotic reiststant. As you may recognize in the video, the E Coli in this experiment is made resistant to streptomycin through modifying the antibiotic binding target (rpsL gene) through transformation.

| Plate the CRISPR solution. Take LB Str temperature. Shake the microcentrifuge tub the agar plate. Use an inoculation loop to sp dry in a sanitary space or other contaminent | pe containing the CRISPR expo pread contents onto the plate | eriment and then pour or pipette c | ontents onto |
|---|--|--|--------------|
| Incubate contents on LB plate. Put the to culture in room temperature. It will take 1 | | er, make sure to label it, and leave t | he bacteria |
| Congratulations! You have now complet | ted your first CRISPR experim | nent! Go you. | |
| | | | |

Take a picture of your end culture and input it on your Lab Notebook. If you did not see any growth, identify

factors that may have contributed to this result.

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