

# A Bacterial Oral Feeding Assay with Antibiotic-Treated Mosquitoes

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## Citation

 Liu, X., Wu, S., Li, W., Zhang, M., Wu, Y., Zhou, N., Wu, P. A Bacterial Oral Feeding Assay with Antibiotic-Treated Mosquitoes. *J. Vis. Exp.* (), e61341, doi:10.3791/61341 (2020).

## Date Published

September 12, 2020

## DOI

10.3791/61341

## URL

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## Materials

| Name  | Company        | Catalog Number | Comments   |
|---|----------------|----------------|--|
| Adenosine 5'-triphosphate disodium salt hydrate | Sigma          | A2383          | Adenosine 5'-triphosphate disodium salt hydrate has been used to prepare adenosine triphosphate (ATP) standard solutions     |
| <i>Aedes aegypti</i>                            |                |                | Female mosquitoes  |
| Anticoagulant tube                              | BD Vacutainer  | 363095         | Collect fresh blood  |
| Centrifuge tube                                 | Sangon Biotech | F601620-0010   | 1.5 ml, Natural, Graduated, Sterile  |
| Cotton balls                                    |                |                |  |
| Disposable Tissue Grinding Pestle               | Sangon Biotech | F619072-0001   | 70 mm Long, Conical, Blue, Sterile   |
| Ethanol absolute                                | Paini          |                | Dilute it to 75% ethanol   |
| Forceps   | RWD            | F11029         | Dissection   |
| Hemotek Membrane Feeding System                 | Hemotek        |                | Components of the feeding system, including Hemotek temperature controller, feeder-housing assembly, metal feeder assembled. |
| Incubator shaker                                |                | ZQZY-78AN      |  |
| Inoculation Loops                               | Sangon Biotech | F619312-0001   | 10 µl, Yellow  |
| LB Agar Powder                                  | Sangon Biotech | A507003        | Tryptone 10.0 g, Yeast Extract 5.0 g, NaCl 10.0 g, Agar 15.0 g.  |
| LB Broth Powder                                 | Sangon Biotech | A507002        | Tryptone 10.0 g, Yeast Extract 5.0 g, NaCl 10.0 g.   |
| Microscope                                      | Zeiss          | Stemi508       |  |
| Paper cup                                       |                |                | Place mosquito   |
| Parafilm  | Sangon Biotech | F104002        | 4 inx 125 ft   |
| Petri dish                                      | Sangon Biotech | F611203        |  |
| Penicillin G procaine salt hydrate              | Sangon Biotech | A606248        | White powder. Soluble in water, soluble in methanol, slightly soluble in water, ethanol                                      |
| Single Channal Pipettor                         | Gilson         |                |  |

|                                       |                    |         |  |
|---------------------------------------|--------------------|---------|--|
| Streptomycin sulfate                  | Sangon Biotech     | A610494 | Streptomycin sulfate is a glucosamine antibiotic that interferes with the synthesis of prokaryotic proteins. |
| Sucrose                               | Sangon Biotech     | A502792 | Soluble in water, ethanol and methanol, slightly soluble in glycerol and pyridine.                           |
| TIANamp Bacteria DNA Kit              | TIANGEN            | DP302   | Extract DNA  |
| Utility Fabric-Mosquito Netting White |                    |         |  |
| Vortex mixer                          | Scintic Industries | S1-0246 |  |
| 1.5ml EP tube                         | Sangon Biotech     | F600620 |  |
| 10X PBS buffer                        | Sangon Biotech     | E607016 | This product is a 10X solution. Please dilute it 10 times before use. The pH value is 7.4.                   |