

Script to prepare video clip(s)

Manuscript Title:	Microwave assisted synthesis, biological evaluation and molecular docking studies of 4-nitrocinnamide analogues		
Video title	Antimicrobial activity (Agar disc diffusion method)		
ID: 32116			
Material:	Duration:	Date:	Location: Your Lab

Position of your Smartphone/Tablet



Take the video using your Smart phone or Tablet in horizontal position instead of vertical so it records in the landscape mode (widescreen)

Smart phone on the tripod reduces the shaking of picture

The phone has to be placed at eye level

Petri dish containing Mueller-Hinton agar

Materials and Reagents

Laminar hood; Electronic balance; Glass bottle; Mueller-Hinton agar; Distilled water; Autoclave; Petri dish

Action		Subtitle
1	Weigh 1 g of the Mueller-Hinton agar in a sterile glass bottle	Wide shot
2	Add 100 mL of sterile distilled water and dissolve it in a laminar hood	
3	Place it within the autoclave	
4	Add few milliliter of agar into the petri dish	

Inoculation of Bacteria

Materials and Reagents

Bacterial growth; Petri dish; Sterile swab

Action		
1	Pick four colonies (<i>Bacillus subtilis</i> , <i>Pseudomonas aeruginosa</i> , <i>Escherichia coli</i> , <i>Staphylococcus aureus</i>) and grow culture overnight	
2	Dilute the culture and grow to OD = 0.5	
3	Wipe swab on plate gently	Close view

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| 4 | Rotate plate and continue swabbing |
| 5 | Dispose the biohazard properly |
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Preparation of Disc with Test Compound

Materials
and
Reagents

Ciprofloxacin; Compound; Disc; Agar plate
containing bacteria

Action

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| 1 | Prepare the stock solution of ciprofloxacin and the test compound (5 mg/mL each) using sterile water and dimethyl sulfoxide (8:2) |
| 2 | Dilute the antibiotic/test compound (200, 100, 50, 25, 12.5, 6.25 and 3.125 µg/mL from the stock |
| 3 | Add antibiotic/test compound to each disc |
| 4 | Dry the disc at room temperature |
| 5 | Mark four quadrants on the plate |
| 6 | Place the disc on agar in the center of sectioned areas |
| 7 | Incubate plates 16-20 hours and measures zone of inhibition |
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