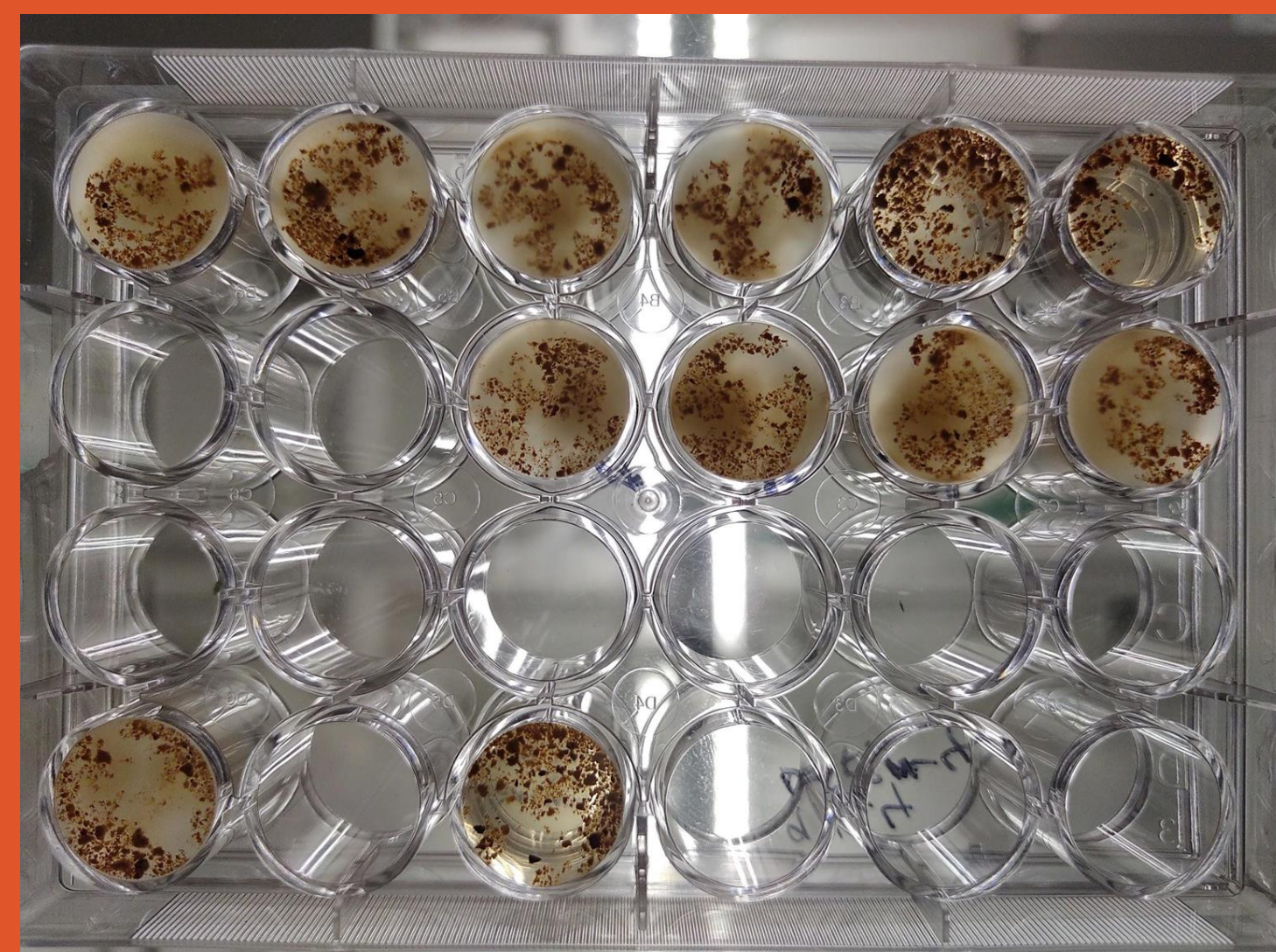


BACKGROUND

- Chemical-biology labs image experiment results for accurate documentation
- Image documentation lends objective credibility to results and assists outside laboratories with confirming results via replication



Current photography setup



Current plate picture

PLATE PHOTOGRAPHY

A lab stand that offers an easier way to take images of specimens in agar plate & well plate with a smartphone



SPECIFICATIONS

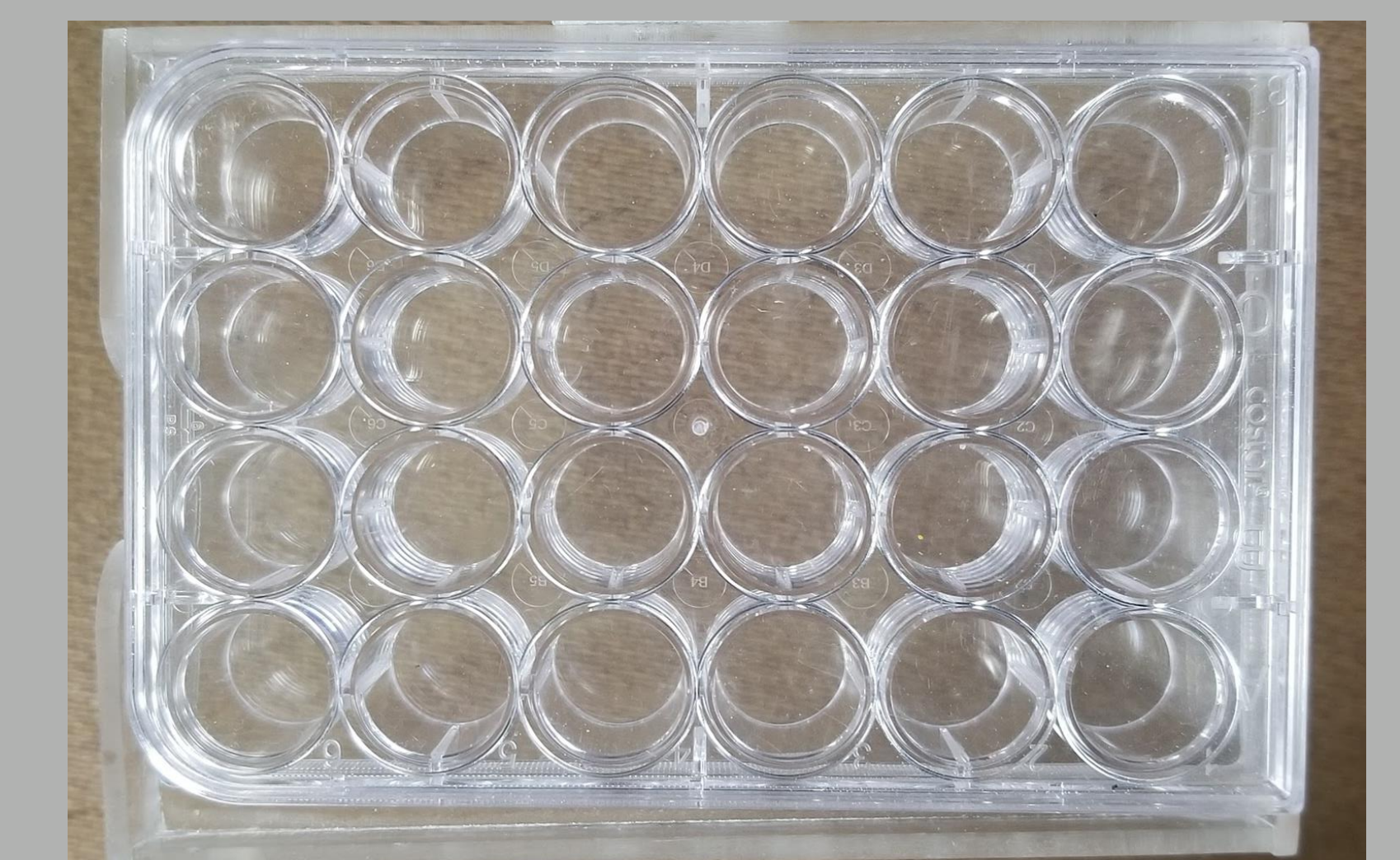
- This project had the following requirements:
 - Hold both agar and well plates.
 - Capture photos from multiple angles.
 - Adjustable lighting.
 - Pictures must be clear.
 - Easily used in a lab setting.
 - Even lighting.
 - Adjustable height.
 - Lightweight.
 - Easy to clean.

DESIGN CHANGES

- A bigger light blind plate to cover a wider range in order to block surrounding lights
- To decrease the components being attached to the pole, the LED lights are clipped to the light blind. this change will provide a better control of the light angle

FINAL DESIGN

- Base: Laboratory ring stand
- Purchased parts:
 - Smartphone holder
 - Two wireless LED lights
- Manufactured parts:
 - Specimen plate holder
 - Ambient light blind



New Plate picture with photography apparatus