

# Filling the evaporation barrier wells of the OrganoPlate®

## 1. Objective

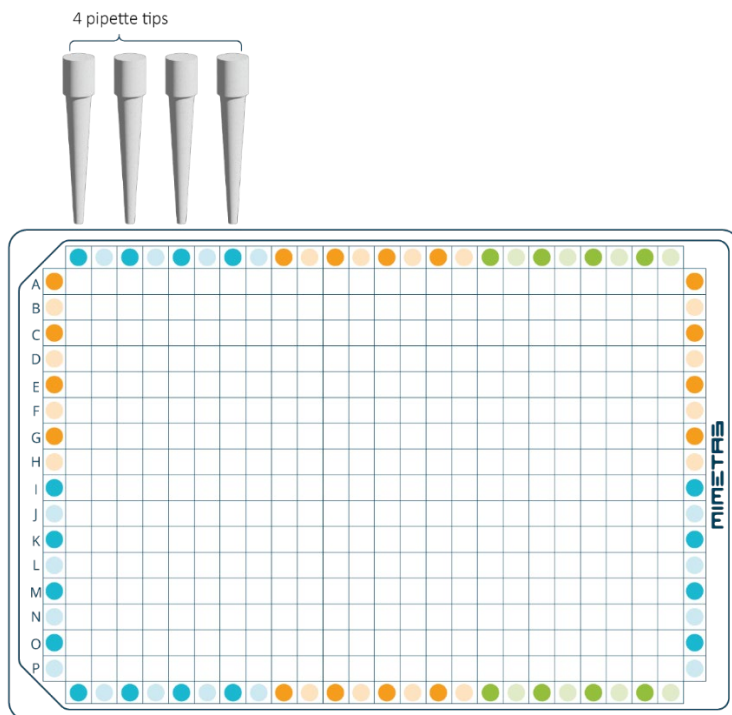
Changes in environmental conditions (temperature, humidity, and %CO<sub>2</sub>) promote excessive evaporation that is more accentuated in the edge wells than in the center. Also, evaporation leads to an increase in the concentration of components. Thus, the use of the evaporation barrier wells of the OrganoPlate prevents excessive evaporation and reduces the edge effect in the OrganoPlate.

## 2. Equipment and materials required

- An OrganoPlate®
- 1x sterile PBS or sterile MilliQ water
- Multichannel pipette 10-300 µl
- Orange tips
- 1x Reservoir

## 3. Equipment and materials required

1. Place around 4.5 ml of sterile PBS or sterile MilliQ water in the reservoir.
2. Set the electronic multichannel pipette to dispense 50 µl per well.
3. Place 4 tips in the electronic multichannel pipette and add 50 µl to the evaporation barrier wells as follows:



#### 4. Notes

- Use PBS or MilliQ water in the observation window. Don't use HBSS, as this will create an undesirable meniscus effect when imaging the plate.
- Change the liquid in the evaporation barrier wells about 2 times per week (i.e., Monday and Friday).
- Make sure to also fill all unused wells of the OrganoPlate.
- When imaging, please make sure to use the correct settings autofocus range settings. Possibly consult [support@mimetas.com](mailto:support@mimetas.com)