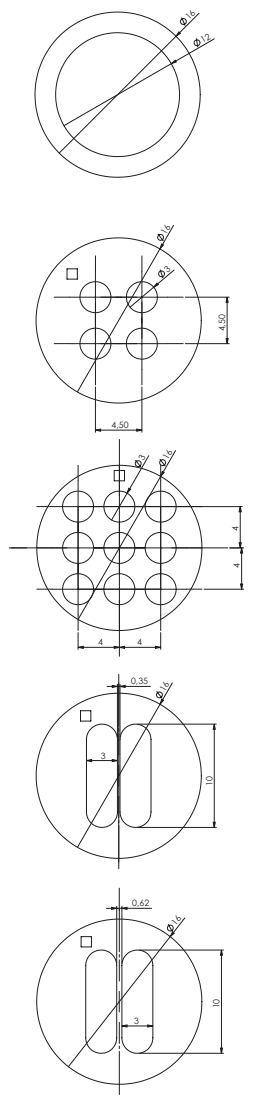
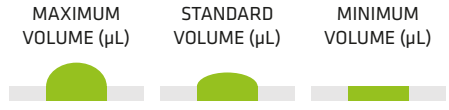


TECHNICAL INFORMATION



	MAXIMUM VOLUME (µL)	STANDARD VOLUME (µL)	MINIMUM VOLUME (µL)
Solo	300	200	125
Quartet	10	5	2
Nonet	10	5	2
Presto	30	20	8
Allegro	30	20	8

Stencell PROTOCOL



idylle-labs.com
 30, rue de Campo-Formio
 75013 Paris - France
 + 33 1 84 25 51 44
contact@idylle-labs.com



STC-P-03.02.21



PROTOCOL



1. The material you need

This protocol was made with the Presto design.

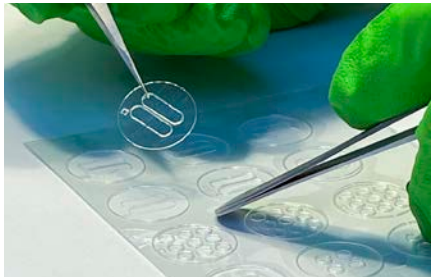
- ✓ Micropipettes and tips
- ✓ Cell culture substrate
- ✓ Cell culture medium and cells: up to 2 cell types in the barrier configuration
- ✓ Optional: Kimwipe®, deionized water and 1 scalpel.

2. Storage

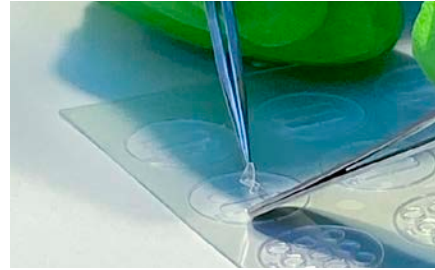
- Stencil can be stored in their protective foil for up to 2 years.
- 💡 **Do not remove the protective foil.**
- 💡 **If you wish to store the assembled Stencells, avoid dust deposition.**

3. Stencil handling

- Using tweezers, remove the protective layer on the Stencil.



- Softly remove the inner elements.



- 💡 **Use 2 tweezers to press close to the junction in order to avoid breaking the Stencil. Alternatively, you can cut the junctions with a scalpel.**

- Remove the Stencil from the lower adhesive layer.



- Put it on top of your culture substrate.



- 💡 **Softly remove the bubbles and stick the Stencil, patting it with tweezers.**



4. Loading the cells / cells confinement

- Detach the cells and resuspend them in appropriate cell culture medium.
- Fill the wells of your Stencil with the medium containing the cells: add the standard volume (e.g. 20 μ L).



Depending on the substrate hydrophobicity, the droplet might not completely fill the well. You can: Either fill the well with the standard volume. Then, help the droplets stick to the Stencil by connecting the liquid next to the Stencil walls using the pipette tip. Or, you may add an excess volume of liquid (e.g. 30 μ L) and remove it afterwards (e.g. 10 μ L).

Caution: do not overfill (e.g. > 30 μ L) the wells, otherwise two droplets may merge.

- Put your substrate and cells in the incubator. Wait for 1 to 2 hours until cells spread and fully occupy the windows space.
- ❗ **If you need to wait longer, pay attention to the fact that the droplets do not completely evaporate. Do not incubate more than 12 hours without renewing the medium.**



- Once the cells have adhered to the bottom of the well, fill the petri dish with your culture medium so that you can start the long-term culture.



5. Wound-healing / cell migration

- Remove the Stencil from the petri dish, proceed softly to avoid disturbing the cells.



- Start the image acquisition.

