

Soft plates for cell culture

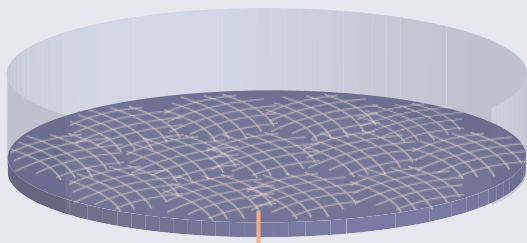
Mecachips™

In vivo, cells lay in soft tissues with distinct physical properties. Rigidity plays a major role in a myriad of cellular mechanisms, such as carcinogenesis and metastasis formation, as well as stem cells differentiation and drug effectiveness. Mecachips™ soft and flat matrices are new and physiological solutions for *in vitro* cell culture. They mimic the soft mechanical features of all human or animal tissues, thus preserving the cells *in vivo* characteristics.

Applications

Areas: basic research, stem cells, oncology, neurology, cardiology, compatible with HCS/HTS platforms.

Tools: cell biology, molecular biology, biochemistry.

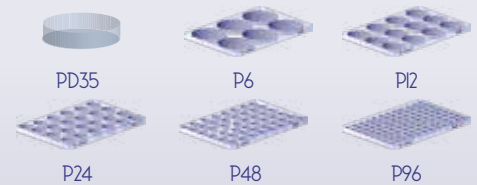


Hydrogel + ECM

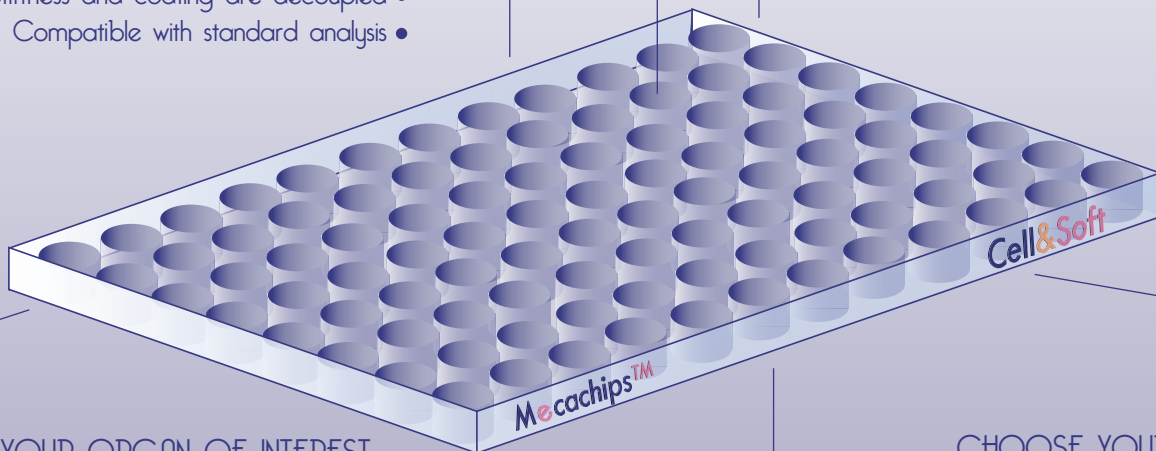
BENEFITS

- Scalable to screening workflow (no topography)
- No biological risk (synthetic matrix)
- Glass bottom: ideal for microscopy
- Stiffness and coating are decoupled
- Compatible with standard analysis

CHOOSE YOUR FORMAT*



*(P384 on request)



CHOOSE YOUR ORGAN OF INTEREST



< 1 kPa < 10 kPa 25 kPa 3 GPa

(Specific stiffness on request)

STORAGE

Temperature: +4°C
Shelf life: 3 months

CHOOSE YOUR COATING

Culture-dedicated surface chemistry:

- Vitronectin (human, recombinant truncated)
- Fibronectin (human, plasma)
- Collagen I (rat, tail)
- Laminin (mouse, EHS sarcoma)
- Poly-Ornithine/ Laminin
- Poly-Ornithine

Mecachips™ Starter Kit

Get a pack of 3 plates to familiarize yourself with our substrates:

- 1 Select 3 organs of interest
- 2 Choose your coating for each of them
- 3 Choose between 3 formats: PD35, P6, P96

To be representative, in vitro cell devices should selectively provide culture conditions as close as possible to the mechanical microenvironment of targeted tissues.