

# MULTI-MAGPEN

# MAGNETIC

# 3D CELL CULTURE TRANSFER

## MULTI-MAGPEN

## 24 WELL & 96 WELL

### Your smart assistant for 3D cell culture transfer

The Multi-MagPen facilitates easy and fast transfer and collection of magnetized cultures without disrupting their tissue architecture. Cells, cultured by Magnetic 3D Cell Culture (M3D), can be transposed by a simple "pick up-and-drop"-step. Additionally, to that, the Multi-MagPen can be used to create and organize co-cultures by combining different magnetized 3D cell cultures.

#### ADVANTAGES OF THE MULTI-MAGPEN:

- / Fast, easy and simultaneous transfer of multiple 3D cell cultures without pipetting
- / Complete media change by a simple "pick up-and-drop"- step
- / Simplified co-culturing of different cell types
- / Ideal for easy immunohistochemistry staining, blocking, and washing of spheroids

#### KEY REFERENCES

- / Haisler et al. - Three-dimensional cell culturing by magnetic levitation. *Nature Protocols*. 8, 1940-9 (2013)
- / Tseng et al. - Assembly of a three-dimensional multitype bronchiole coculture model using magnetic levitation. *Tissue Engineering Part C Methods*. 19, 665-75 (2013)
- / Souza et al. - Three-dimensional tissue culture based on magnetic cell levitation. *Nature Nanotechnology*. 5, 291-6 (2010)



## PRODUCT OVERVIEW

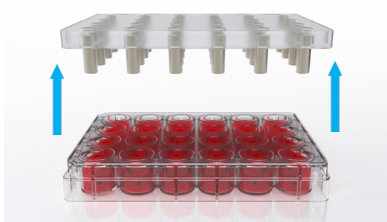
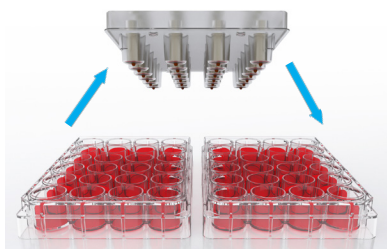
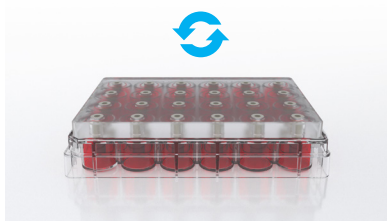
FOR FURTHER INFORMATION AND COMPLETE HANDLING INSTRUCTIONS PLEASE VISIT OUR WEBSITE OR CONTACT US.

### MULTI-MAGPEN KITS & SLEEVES

Item No.	Product Description	Content/Packaging
657824	24 Well Multi-MagPen Kit	24 Well Multi-MagPen Drive, transparent, non-sterile, 1 pcs./box, 24 Well Multi-MagPen Sleeve, PET, transparent, sterile, Cell Repellent, 1 pcs./bag, 2 pcs./box
657896	96 Well Multi-MagPen Kit	96 Well Multi-MagPen Drive, transparent, non-sterile, 1 pcs./box, 96 Well Multi-MagPen Sleeve, PP, transparent, sterile, Cell Repellent, 1 pcs./bag, 2 pcs./box
651524	24 Well Multi-MagPen Sleeve	24 Well Multi-MagPen Sleeve, PET, transparent, Cell Repellent, 1 pcs./bag, 10 pcs./box
651596	96 Well Multi-MagPen Sleeve	96 Well Multi-MagPen Sleeve, PP, transparent, Cell Repellent, 1 pcs./bag, 10 pcs./box

## RECOMMENDED HANDLING

Equivalent handling for 24 & 96 Well Multi-MagPen



1

Take off the lid of the donor plate (microwell plate containing 3D cultures or spheroids) and insert the sterile Multi-MagPen Sleeve in the wells of the plate and the magnetic Multi-MagPen Drive into the Multi-MagPen Sleeve.

2

Carefully make 2-3 circular movements with the plate on the desk to facilitate 3D cell culture attachment to the Multi-MagPen Sleeve.

3

Gently lift the Multi-MagPen Drive with its sleeve off the receiver plate. The magnetized 3D cell cultures will stick to the Multi-MagPen Sleeve and will be held by the magnetic force of the Multi-MagPen Drive during transfer to the receiver plate.

4

Take out the Multi-MagPen Drive from the Multi-MagPen Sleeve and transfer it with the receiver plate (without the Multi-MagPen Drive) on a Holding Drive to detach 3D cell cultures from the Multi-MagPen Sleeve.

Note: This handling instruction is only a short manual. For correct product usage please refer to the instruction for use at [www.gbo.com](http://www.gbo.com).