## **USER GUIDE**

# Attachment to and detachment of the Collagen Cell Carrier<sup>®</sup> (CCC) from the well bottom

The CCC is a native cell matrix designed as a mobile cell and tissue carrier. As such, the cell-seeded CCC may be removed from the well and transferred to various subsequent processes (e.g. implantation studies, embedding for histological analyses etc.).

Before cell seeding, please follow the protocol on page 2 to (reversibly) attach the CCC to the well bottom.

For subsequent removal and transfer of the cell-seeded CCC, please follow the CCC detachment protocol on page 3.

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### ATTACHMENT & DETACHMENT OF CCC



Collagen Cell Carrier® for cell/tissue transfer

#### **General precautions**

When working with the CCC please use appropriate cell culture plastics, media and reagents as well as aseptic techniques and ensure adequate growth environments. All liquids should be pre-warmed at least to room temperature. Pipette liquids gently along the sidewall into the well and avoid touching of the CCC after attachment until its translocation.

# 1. Reversible attachment of the CCC to the well bottom and cell seeding

#### **Required material**

- Sterilized forceps
- Pipettes
- PBS (pH 7.3 w/o Ca<sup>2+</sup> / Mg<sup>2+</sup>)
- Tissue culture-treated multiwell plate suited for respective CCC diameter

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Cell culture medium

#### Intended use

The CCC is intended for research use only.

It is neither intended for human nor animal diagnostic, therapeutic use or any other clinical use.

#### Disclaimer

All data and recommendations correspond to the present state of our knowledge; they are published without engagement. We reserve the right to make alterations and additions in line with technical developments without prior notice. The customer is obliged to check whether our products meet his technical requirements.

Please contact us for questions or technical support:

Contact@bio.viscofan.com



## ATTACHMENT PROTOCOL

|        | CCC diameter<br>(well plate format)  | Ø 34 mm<br>(6-well) | Ø 21 mm<br>(12-well) | Ø 14 mm<br>(24-well) | Ø 10 mm<br>(48-well)     | Ø 7 mm<br>(96-well) | Ø 88 mm<br>(10 cm dish) |  |
|--------|--|---------------------|----------------------|----------------------|--------------------------|---------------------|-------------------------|--|
|        | Volume of PBS  | 1000 µl             | 500 µl               | 250 µl               | 150 µl                   | 50 µl               | 6 ml                    |  |
| STEP 1 | Preload each well with PBS (pH 7.3 w/o Ca <sup>2+</sup> / Mg <sup>2+</sup> ) in the volume given in the table above.<br>Important: Do not exceed these volumes!<br>For cell types known to be sensitive to phosphate buffers, the CCC may be washed with ddH <sub>2</sub> O in STEP 6 before incubation with medium. |                     |                      |                      |                          |                     |                         |  |
| STEP 2 | Remove the CCC carefully from the bag using a pair of sterile forceps and place it flat on top of the PBS. Incubate for 30 min at room temperature.<br>Important: Do not submerge the CCC!   |                     |                      | ccc                  | CCC 30 min R.T.          |                     |                         |  |
| STEP 3 | Carefully aspirate the PBS. Tip: tilt the well plate<br>slightly to one side.<br>Then ensure that the CCC is positioned flat on<br>the bottom of the well without wrinkles or<br>entrapped bubbles.  |                     |                      |                      | <u>↓</u> → ⊥_            |                     |                         |  |
| STEP 4 | Let the CCC dry overnight in the operating<br>laminar flow hood with the lid of the well plate<br>removed.<br><u>Important</u> : thorough drying is necessary for<br>reliable attachment of the CCC to the well<br>bottom!   |                     |                      |                      | V Vover night R.T.       |                     |                         |  |
| STEP 5 | Prior to cell seeding, equilibrate the CCC with an appropriate volume of pre-warmed cell culture medium for at least 30 min at 37°C in the CO <sub>2</sub> incubator.<br><u>Important</u> : Avoid touching the CCC until its translocation (if intended). Pipette liquids gently along the sidewall into the well.   |                     |                      | _*/                  | <b>1</b> → <b>1</b> 37°C |                     |                         |  |
| STEP 6 | Change the mediur<br>on the CCC.   | m just prior to s   | eeding cells         | 1 2                  | 「→ <sup>-</sup>          |                     |                         |  |

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### 2. Detachment of the cell-loaded CCC from the well bottom and transport

#### Required material

- (sterilized\*) forceps
- pipette
- (sterilized\*) glass slide or other support with smooth, wettable surface

\*sterilization of tools is only needed if subsequent processes require sterile conditions.

## DETACHMENT PROTOCOL



| CCC-membranes for: | VWR Cat. No. |
|--------------------|--------------|
| 6-well plate       | 76518-082    |
| 12-well plate      | 76518-084    |
| 24-well plate      | 76518-086    |
| 48-well plate      | 76518-088    |
| 96-well plate      | 76518-090    |



## Contact us

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