COSMO BIO CO., LTD.

VECELL®(6, 24, 96, 384) Well Hybrid Plate (VECELL H-Plate)

Cat. No. VCL-V6WHPB-1-EX (1plate)
Cat. No. VCL-V24WHPB-1-EX (1plate)
Cat. No. VCL-V96WHPB-1-EX (1plate)
Cat. No. VCL-V96WHPWT-1-EX (1plate)
Cat. No. VCL-V6WHPB-10-EX (10 plates)
Cat. No. VCL-V24WHPB-10-EX (10 plates)
Cat. No. VCL-V96WHPB-10-EX (10 plates)
Cat. No. VCL-V96WHPWT-10-EX (10 plates)

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Directions for Use

Thank you for purchasing our product, VECELL® (6, 24, 96, 384) well Hybrid Plate (VECELL®H-Plate). The membrane of is a Hybrid membrane of the porous membrane (ePTFE) and the gas permeable membrane. The external dimensions of 96well and 384 well plates conform to the recommendations of ANSI/SLAS Microplate Standards (ANSI/SLAS 1 to 4 – 2004). Materials of the plate framework is polystyrene (PS), except 384 well plate Cyclic Olefin Copolymer(COC).We hope you will find it helpful in your research work. Please read carefully and follow the directions below before use.

1. Do not use beyond the expiration date on the label. The VECELL®H-Plate has been sterilized with EOG, and can be used for 3 years from the date denoted by the Lot Number (for example, Lot :150202 refers to 2015/02/02). Please avoid direct sunlight, hot and humid, and please store at room temperature.
2. The VECELL®H-Plate will be transparent after the addition of medium. It membrane is not transparent under dry conditions, but becomes transparent under wet conditions. Next, pipette the appropriate cell dispersed medium and seed cells directly onto the wet VECELL® H-Plate membrane. Cultured cells on the VECELL membrane can be observed under a normal phase contrast microscope. As for recommended medium amount of each well, please refer to the table below. Please change this medium amount at your experiment conditions.

Recommended Medium Amount

Plate type	Medium amount
6well Plate	2000 ～ 3000 µL
24well Plate	500 ～ 900 µL
96well Plate	100 ～ 250 µL
384well Plate	30 ～ 60 µL

3. One of the merits of the VECELL®H-Plate is in vivo-like cell morphology and behavior for more realistic cell biology and function. Cell shape on the membrane is not expanded, thereby increasing cell density by 20 ～ 60%. Please decide cell seeding density depending on experimental conditions.
4. Medium change should be done after 24hrs of seeding on VECELL® H-Plate, because cell attaching to the Plate becomes stable after 24hrs.

5. The VECELL®H-Plate membrane is not transparent under dry conditions, but becomes transparent under wet conditions. Cultured cells on the VECELL®H-Plate membrane can be observed under a normal phase contrast microscope. The VECELL®H- Plate membrane has strength enough for the experiment. But it is very thin. Do not touch membranes directly with pipettes.
6. Membranes do not contain fluorescent substances, and cells on the membranes can be observed by fluorescence microscopy.
7. The VECELL®H-Plate membrane is already coated with cell-adhesive material. Subculture using the VECELL®H-Plate. For subculture, it is recommended to use normal trypsin treatment. Within 4 days of culture, the cell recovery rate is almost the same as that with a normal plastic plate. However, after one week of culture, the recovery rate becomes lower than with a normal plastic plate, due to ECM (extra cellular matrix) production and tissue formation into the VECELL®H-Plate membrane. If not cell recovery, a cell culture can be extended to long-term cell.
8. The membrane of the VECELL®H-Plate can be treated in alkaline solution for DNA extraction and also used with organic solvents, including ethanol, phenol and 80%DMSO.

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