Miltenyi Biotec

# Gas-Permeable Culture Plate



## 1. Description

This product is for research use only.

**Components** 6-well or 24-well or 96-well plates, black, silicon foil bottom, with lid, sterile and single packed, 4 pieces per box.

| Product | Order no. |
|---|---|
| Gas-Permeable Culture Plate (6 well) | 150-000-363 |
| Gas-Permeable Culture Plate (24 well) | 150-000-362 |
| Gas-Permeable Culture Plate (96 well) | 150-000-364 |

**Storage** Store Gas-Permeable Culture Plates dry and protected from light at room temperature (19–25 °C).
The expiration date is indicated on the box label. Do not use after this date.

### 1.1 Background information

Gas-Permeable Culture Plates have been designed for cell-based assays with special requirements for control of gas partial pressure in the cellular environment. Applications are high density cell cultures, cultivation of cells with high oxygen demands or in exactly controlled oxygen environments like hypoxic experimental setting. The plate bottom is made from thin silicone foil (170 µm) and enables rapid gas exchange between cell culture media and atmosphere.

### 1.2 Technical specifications

- Plate material: polystyrene, black
- Bottom material: silicone foil, transparent
- Lid material: polystyrene, transparent
- Recommended working temperature between 4 °C and 40 °C
- Recommended working volume per well: 3–4 mL (6 well), 500–1000 µL (24 well), 100–200 µL (96 well)
- Dimensions (ANSI/SLAS guideline compliant):

| | 6-well plate | 24-well plate | 96-well plate |
|---|---|---|---|
| Length [mm] | 127.76 | 127.76 | 127.76 |
| Width [mm] | 85.48 | 85.48 | 85.48 |
| Height [mm] | 15 | 15 | 14.35 |
| Well diameter [mm] | 32 | 13 | 6 |
| Well-well distance x/y [mm] | 36 | 18 | 9 |
| Distance well center A1 to short side [mm] | 27.88 | 18.88 | 14.38 |
| Distance well center A1 to long side [mm] | 24.74 | 15.74 | 11.24 |
| Distance bottom to focal plane [mm] | 0.4 | 0.4 | 0.4 |
| Bottom thickness [mm] | 0.17 | 0.17 | 0.17 |

### 1.3 Further information

- Gas-Permeable Culture Plates ensure well-controlled humidity >95% in the incubator to prevent accelerated evaporation. Spacer plates might be used to ensure a gap between the plate bottom and the incubator shelf.
- Best performance is ensured when the plates are not stacked (ensure bottom ventilation).
- Recommended for suspension cells. Adherence-dependent cells need biological coatings appropriate for the used cell type.


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### 1.4 Applications

Gas-Permeable Culture Plates have been designed for cell-based assays, such as:

- T cell activation
- NK cell activation
- Controlled hypoxia experiments

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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