



Leakage Test TPP® Filter and VENT Screw Cap

Filter Screw Cap

For continuous sterile gas exchange, securely close the filter screw cap with an integrated 0.22 µm hydrophobic PTFE membrane (Fig. 1).

Note: To ensure optimal gas exchange, make sure that the PTFE membrane does not come into contact with liquids.

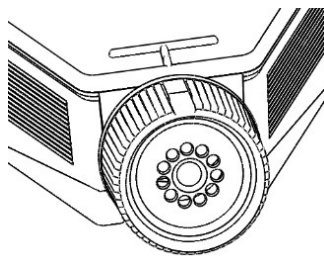


Figure 1. Filter Screw Cap

VENT Screw Cap

- Activating gas exchange (Fig. 2): To enable controlled gas exchange, turn the VENT screw cap until you hear an audible “click” confirming that the cap has locked into the ventilation position.
- Interrupting gas exchange / Closing (Fig. 3): To stop gas exchange, turn the cap beyond the ventilation position by a quarter turn (1/4) clockwise. This creates a hermetic seal that prevents further interaction with the atmosphere. During cell incubation, position the rectangle marking at the 12 o'clock position.
- When transporting tubes and bottles with VENT screw caps within the laboratory, the cap must be turned firmly into the fully closed position to prevent leakage or contamination.
- Before incubation, check the position of the cap to ensure that the VENT screw cap is in the venting position.

Figure 2. Position ventilation

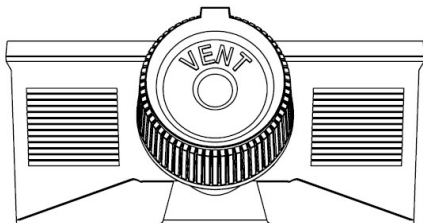
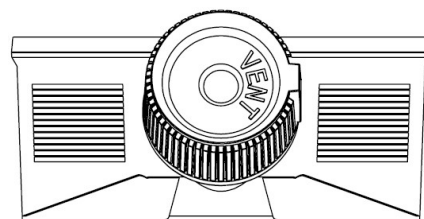


Figure 3. Position gastight




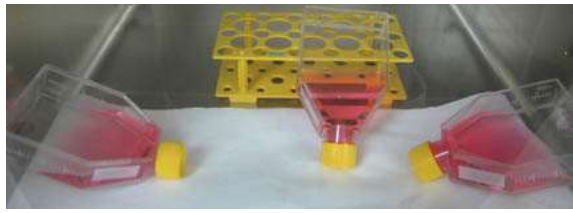


Technical Data

| Component | Material |
|-----------|---|
| Cap | Polyethylene (PE) |
| Membrane | Polytetrafluoroethylene (PTFE), Pore size 0.22 µm |







Test Procedures

1. Vacuum 0.6 mbar, 30 min




| Filter Screw Cap | VENT Screw Cap |
|--|---|
|  |  |
|  |  |
| No media leakage through the filter | No media leakage through closed cap |

2. Incubator 37 °C, 12 h

| Filter Screw Cap | VENT Screw Cap |
|---|--|
|  |  |
|  |  |
| No leakage of medium through the filter | No leakage of medium through closed cap |



3. Positive Pressure in Water Bath 0.5 bar

| Filter Screw Cap | VENT Screw Cap |
|--|---|
| Air bubbles present due to the internal pressure in the flask | Test is not possible due to the risk of a burst |
|  | n/a |
|   | n/a |
| No media leakage through the filter | |

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