Vial sharing would lead to great savings in cancer therapy. However, microbiological stability is of concern.

**PURPOSE**

To assess microbiological stability of vials in cytostatic compounding when the closed-system drug transfer device PhaSeal® is used.

**METHODS**

- Cytostatic compounding process was simulated using 100ml TSB culture media vials.
- Three batches (8 vials each) were elaborated as described in the figure.
- Handling was conducted inside a biological safety cabinet and using PhaSeal® system.

**RESULTS**

- No microbiological growth was detected in any of the 24 vials after 7 days of storage and 9 manipulations of each vial.
- 96 syringes and 96 bags were incubated. None were contaminated either.

**CONCLUSIONS**

An aseptic technique using PhaSeal® maintains vial´s sterility over time (at least 7 days) and handling, allowing substantial savings.