

BactiQuik™ vials are custom 1 ML microbial suspensions to be used with Artificial Test Soil (ATS) to test disinfection and sterilization efficacy. The vials contain a pure population of approx. 1×10^8 CFU/ML of viable *Geobacillus stearothermophilus* or *Bacillus atrophaeus*.

G. stearothermophilus has known resistance for steam sterilization, and *B. atrophaeus* for ethylene oxide and dry heat sterilizations.

Instructions for Use

- Shake the BactiQuik™ vial well before using.
- Use it directly from the fridge. Keep the vial refrigerated when not in use.
- Add 9ML sterile water in the ATS-9ML vial. Dissolve by shaking or vortexing. After mixing the final volume is approx. 10ML.
- Let the foam settle for about 10 minutes.
- Inoculate the ATS vial with 100 μ l BactiQuik™ to achieve a microbial concentration of about 10^6 CFU/ML in the 10 ML product. Mix well.
(Inoculum volume can be adjusted on an as needed basis).
- Transfer intended amount from this and inoculate the challenge area on the device.
- Let the soil sit for 2 hours or even overnight to simulate a worst case scenario.
- Clean, disinfect or sterilize the device using the intended reprocessing method.
- Extract any residual soil that may have remained on the device using sterile RO water, preferably in a laminar flow hood. Depending on the application, extract by immersion shaking, vortexing or sonication.
- Pipette 100 μ l of the solution on Tryptic Soy Agar (TSA) petri-plates. Spread using a sterile spreader.
- A positive and a negative control petri-plate may be run with the tests.
- Incubate the plates at 55°C for *Geobacillus* and 37°C for *Bacillus* for 1 day to see the test results.

Note: This is a general use protocol. Depending on the area of the device tested and/or the concentration of the spores needed, the above steps might need to be adjusted accordingly.

Strict aseptic procedures must be employed during use at all times.