

How Neogen's Test Kits Work

Hydrophobic Grid Membrane Filtration

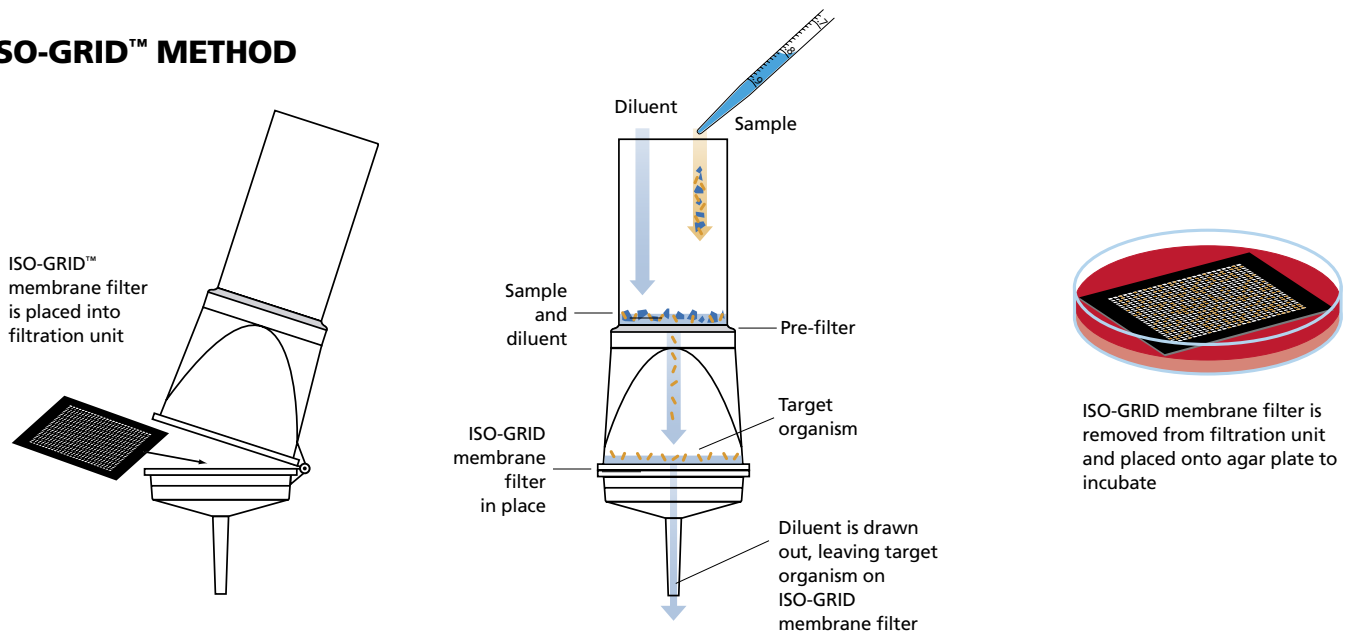
(ISO-GRID and NEO-GRID test kits)

ISO-GRID/NEO-GRID tests are based on the concept of hydrophobic grid membrane filtration. The filter membrane is embossed with hydrophobic ink to produce a grid containing 1600 individual squares. The ink's hydrophobic nature contains the growth of an organism isolated during the filtration process within the square of capture.

Samples are first diluted in a sterile buffer. The ISO-GRID and/or NEO-GRID filtration unit is then placed onto a manifold connected to a vacuum source, and a sterile filter membrane is placed in the ISO-GRID filtration unit (NEO-GRID already contains a sterile filter membrane). Using the vacuum source, a portion of the diluted sample is filtered through the filter membrane.

The membrane is then transferred to an agar plate prepared with a medium formulated to promote/differentiate the growth of the target organism. Following incubation, the plate's squares containing presumptively positive colonies are counted to yield a most probable number (MPN) result.

ISO-GRID™ METHOD



NEO-GRID™ METHOD

