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Our filters, were tested at the Johns Hopkins Bloomberg School of Public Health under the supervision of Kellogg J. Schwab, Ph.D, associate professor in Department of Environmental Health Engineering. In Dr. Schwab's words, the filter "effectively filters all bacteria from laboratory test water. We have tested (the) units multiple times, and they consistently remove at least four logs of bacteria."

To be certain of filtration effectiveness, Clean+Clear commissioned Analytical Food Laboratories of Grand Prairie, Texas to repeat the tests performed at Johns Hopkins. Their scientists certified as follows:

The water filter element was tested for bacteriological removal capacity. The filter was tested using 5 Liters of inoculated distilled water. The water was inoculated with a live culture of E. coli (generic) of a know concentration. The water was then filtered through the provided apparatus and samples were taken at the beginning, middle and end. Typical growth was not recovered in the filtered water indicating that the filter was able to block passage of the specific bacteria during this trial.

Data:

Initial Concentration of Inoculum: 1.26×10^8

Inoculum was diluted to 25,000 cfu/mL and placed in the apparatus. From the apparatus aseptic samples were pulled at the beginning of filtering, middle of filtering and end of filtering. The samples were then tested using methods from BAM Ch 4. Recovery of the bacteria at levels 0.0% or a filtering percentage of 100% indicates that the filter provided blockage of the bacteria in this trial.