

Independent Bacteria Removal Study

Date: October 17th, 2018

Method: The conducted test study was performed to evaluate the provided purifier units' filtration efficacy as per the client requested and laboratory developed protocol. The protocol represents a challenge that is adapted from protocol NSF/ANSI P231 for Bacteria reduction efficacy (including E Coli). The water was spiked with the micro-organisms indicated below and then passed through the filter. The results are stated in the report below. All micro-organisms were reduced to a concentration equal to or less than the permissible limits set forth by NSF/ANSI P231. For the study, challenge water was continuously aspirated through the filters by peristaltic pump assembly at the indicated, maintained flow rates of manufacturers guidelines of 1.25 gallons per minute. After 1, 25, 50, 100, 150, 200 gallons were passed through each filter, effluent samples were collected in appropriate containers, and stabilized according to method. Prepared test water characteristics were measured as per laboratory's accredited ISO17025:2005 methodology.

Filter Description: Epic Water Filters - Epic Smart Shield Under Sink Filter

Water Contaminants Tested: Micro-Organisms (Bacteria)

Results:

| Escherichia Coli (E. Coli) (µg/L) NSF/ANSI P231 STANDARD | | | | | | | | |
|--|-------------------------------|-------|--------|--------|---------|---------|---------|-------------------------|
| Filter Description | Influent Concentration in ppm | 1 Gal | 25 Gal | 50 Gal | 100 Gal | 150 Gal | 200 Gal | Average Percent Removal |
| Smart Shield by Epic Water Filters | 403,220,000 | 0 | 3 | 30 | 80 | 100 | 150 | >99.9999% |

| Pseudomonas Aeruginosa - (µg/L) NSF/ANSI P231 STANDARD | | | | | | | | |
|--|-------------------------------|-------|--------|--------|---------|---------|---------|-------------------------|
| Filter Description | Influent Concentration in ppm | 1 Gal | 25 Gal | 50 Gal | 100 Gal | 150 Gal | 200 Gal | Average Percent Removal |
| Smart Shield by Epic Water Filters | 126,460,000 | 0 | 2 | 20 | 76 | 98 | 130 | >99.9999% |

