

62-23 Millipore HPC Sampler (Project 00-51) (4/01)

The Millipore HPC Sampler is a self-contained, individually-packaged device that can be used to analyze water from dental unit waterlines. The device consists of the following: a plastic handle with a 0.45-micron Millipore filter, an absorbent pad containing dehydrated nutrient medium for recovering heterotrophic bacteria from the water source, and a plastic case for sampling and incubation. To use the device, the water sample is placed directly in the plastic case and the handle with its absorbent pad is placed into the case. The pad draws 1 mL through the filter and bacteria larger than the pore size are retained on the filter. The liquid hydrates the medium, providing nutrients to the microorganisms on the filter. Resulting colonies are then visually examined and counted using the grid-marked filter after a seven-day incubation period at room temperature.



Manufacturer:

Millipore Corporation
80 Ashby Road
Bedford, MA 01730
(800) 645-5476
(781) 533-6000
(781) 533-3110 FAX
www.millipore.com

Suggested Retail Price:

\$15.00 One Standard Package
-five Millipore HPC Samplers
-five Whirl-Pak Bags with sodium thiosulfate

Government Price:

Same as above

ADVANTAGES:

- + Detailed, thorough instructions for use.
- + Simple to use.
- + Is a self-contained device that is ready to use.
- + Individually and conveniently packaged.
- + Easy to collect the sample in the plastic case.
- + Does not require an incubator for culturing.
- + Test results are obtained at room temperature.
- + Filter membrane absorbs 1 mL of sample, which simplifies the calculation of CFUs/mL.
- + Filter grid allows for easy bacterial colony determination.
- + Water neutralizing agent is included for treating chlorinated (i.e., tap water) water samples.

DISADVANTAGES:

- Chlorinated water samples must be neutralized before sampling.
- Recommended incubation time is longer (i.e., seven days) than that of similar products.

SUMMARY AND CONCLUSIONS:

The Millipore HPC Sampler is a simple, ready-to-use device for monitoring the microbiological quality of water from dental unit waterlines. Evaluators judged the sampling process to be easy to perform and noted it required minimal time and armamentarium. All test samples could be easily quantified. The product is similar in price to other water monitoring devices on the market, and it was rated favorably for its detailed instructions and ease of use. The product's main drawbacks were the need for users to neutralize chlorine-containing (i.e., tap water) water samples, and the extended incubation time. The **Millipore HPC Sampler** is rated **Acceptable** for use by the federal dental services.