

61-36 Bio2000 (Project 00-16) For **UPDATE!**, click [here](#).

Bio2000 is a mint-flavored, full strength, antimicrobial, multipurpose disinfectant that contains chlorhexidine as the active ingredient. The product is placed in a separate water reservoir container and can be used (1) overnight as a dental waterline cleaner and/or (2) continuously as a coolant/lubricant with the high-speed handpieces or ultrasonic scalers. The manufacturer claims that nightly application achieves the American Dental Association (ADA) goal for microbiological quality of dental treatment water (i.e., less than 200 colony-forming units per milliliter). When used continuously, it is purported to increase bur cutting efficiency, reduce aerosol production, and decrease odors and foul tastes during dental procedures. The manufacturer claims that Bio2000 will not corrode metals, clog valves, stain, or cause foaming. The product is available in 17-ounce bottles (10 per case) or in a 2.6-gallon jug with a spigot for ease of dispensing.

Manufacturer:

Micrylium Laboratories
523 Ennslin Drive
Danville, KY 40422
(800) 489-8868
(606) 936-0423 FAX
www.micrylium.com



Suggested Retail Price:

\$99.95 One (1) case of Bio2000 (ten 17-ounce bottles)
\$185.00 One (1) 2.6-gallon jug with spigot

Government Price:

\$70.00 One (1) case of Bio2000 (ten 17-ounce bottles)
\$129.50 One (1) 2.6 gallon with spigot

ADVANTAGES:

- + Produced water quality that met the ADA goal.
- + Easier to use than bleach.
- + Less likely to cause damage to dental units than bleach.
- + Authorized for use by A-dec.
- + No mixing or dilution required.
- + Only a small amount is needed for waterline treatment.
- + Can be used with any type of separate water reservoir.
- + Easy to dispense using spigot provided.
- + Blue color simplifies application.
- + Simple instructions.

DISADVANTAGES:

- More expensive than bleach.
- Manufacturer recommends nightly use.

SUMMARY AND CONCLUSIONS:

Bio2000 was rated as "Excellent" for all handling properties and clinical acceptability. During the four-week test period, all tested water samples met the ADA goal for unfiltered output water. The product requires no dilution and uses only 2.5 ounces of solution to treat each dental unit. The main disadvantages were its greater cost compared to diluted bleach, and the need for nightly application as recommended by the manufacturer. **Bio2000** is rated **Acceptable** for use by the federal dental services.