



- Shocks
- Antimicrobial
- Multi-Purpose



COMPLETE WATERLINE SHOCK SOLUTION

LINES is a full strength ready-to-use maintenance product for potable water systems. Designed to shock and maintain dental unit waterlines and other water systems with narrow bore polymer tubing and mixed metal components. LINES provides fast and effective cleaning in the presence of biofilms, minimizing the impact on the environment, people and equipment. Fresh licorice-mint scent.



DIN 02240323

BACTERICIDAL & FUNGICIDAL

FASTER



30-Second Solution

A 30-second water purge will reduce the LINES content to 18 ppm Chlorhexidine. Will not damage resin bonding.



Clean Waterlines

Nightly use of LINES will ensure the next day's water begins at 0 CFU (Colony Forming Units).



Quick Biofilm Removal

Removes accumulated waterline biofilm. Biofilm is the main source of bacterial contamination and handpiece clogging.

SAFER



Safe for Equipment

Will not corrode metals, clog valves, stain or stick to waterlines. Approved by major manufacturers for use in their equipment.



Antimicrobial

Using full strength protects patients and staff from cross-contamination. It ensures the kill of serious pathogens such as *Pseudomonas aeruginosa*.



Reduces Airborne Bacteria

Protects patients and staff from bacterial aerosols generated by the cutting or scaling of teeth.

KINDER



Environmentally Friendly

All products are made with biodegradable ingredients. Contains no toxic substances.



Economical Usage

One 500mL bottle will fill approximately 166 meters (yards) of 1/16" dental tubing or 63 meters of 1/8" tubing. One ounce (30mL) per unit per week.



Certified Biodegradable

All ingredients are USP Pharma grade and/or food grade quality



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WATERLINE STUDY



Average bacterial counts:

- Dentist with city water 375,000 CFU/mL Dentist with well water 1,200,000 CFU/mL
- New dental unit 5,000,000 CFU/mL
- Grocery misting line 512 CFU/mL
- Dentist using LINES <200 CFU/mL

WATER QUALITY



Ensure quality of source water: Do not pass distilled water through charcoal filters; they are excellent substrates for bacterial growth. Regularly clean containers used to collect distilled water with a non-toxic product such as Lines.

CLOSED WATER SYSTEMS



Closed systems are often contaminated by air pressurizing them. Monitor compressor air for microbial compressor air contamination; change compressor filters and install air dryers as needed. If quality of incoming water is of good quality, then reduce use to weekends after the first month. If quality of water is excellent (i.e. Sterile Ozonated, UV treated) then weekend use once per month is all that is necessary.

HOW TO USE





First, air purge water lines. Then run 30-60 mL of LINES through the tubing until the fluid is visible at the egress.





Leave product in the tubing overnight, throughout the weekend or for extended periods.





After first time overnight/weekend use of LINES, thoroughly flush tubing with water for at least 5 minutes. Biofilm (thick slime) will be discharged the first time. Remove

handpieces to avoid plugging.





New users should use LINES nightly for 3 weeks.





LINES will maintain the unit when used weekly. To ensure the best water quality, use nightly.





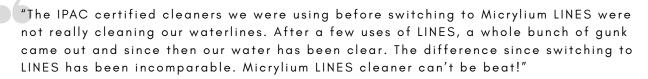
tubing (low speed or QD outlets) should be drained before use and capped at the control block. Disconnect all dead waterline legs including slow speed waterlines.

removed and dead-end

PRODUCT SPECIFICATION DATA

Item Number	Product Description	Packaging
03-BLUE-005	Lines 5L Bag-in-Box RTU	1 Box

CUSTOMER REVIEWS



Maria Peragine, RDH, Glow Dental









COMPLETE WATERLINE

SHOCK SOLUTION



THE ECO-PACK



The Eco-Pack bag-in-a-box contains a sealed biodegradable plastic bag and dispensing spigot. This design ensures no outside air comes in contact with the solution at any point before it is dispensed. This maximizes the solutions' antimicrobial properties. Square box design vs round bottles maximizes storage space. Both the box and bag collapse for easy disposal.

OUR MASCOT



Frogs are highly sensitive to their surroundings due to their permeable skin. The presence of a healthy frog population is a strong indicator of a balanced and healthy eco-system. Micrylium uses the frog as our mascot because we subscribe to creating products and packaging that are eco-friendly, biodegradable and sustainable. LINES contributes to keeping our water systems clean and healthy.

DID YOU KNOW?



LINES can be left in the dental unit for extended periods (up to 6 months). It can also be used to clean hand pieces and other instruments prior to sterilization. Always rinse before with distilled water. This solution will eliminate the bad odours and tastes that occur during procedures.

EFFECTIVE CONTACT TIME

Pathogen Type	Strain	Effective Contact Time
Bacteria	Salmonella choleraesuis (ATCC 10708)	6 hours
Bacteria	Pseudomonas aeruginosa (ATCC 15442)	6 hours
Bacteria	Staphylococcus aureus (ATCC 6538)	6 hours
Bacteria	Escherichia coli (NCTC 10541)	6 hours
Fungi	Trichophyton mentagrophytes (ATCC 9533)	6 hours

Note: Initial Formulation Batch (aged 60 days) tested on 60 replicates as indicated in AOAC method 955.15 for confidence level of 95%.

Each Production Batch is tested with 10 replicates (0% failure) to monitor ongoing quality control specifications for each product.

* Testing performed at Nucro-Technics Laboratory, 2000 Ellesmere Road, Unit 16 Scarborough, Ontario

All other tests performed at Micrylium Laboratories, 117 Dolomite Drive, North York, Ontario



















