



Got A Minute?

CA DIN 02210711 / FDA D142278

Hospital Level Immersion Disinfectant

Contact Time < 1 Minute (less than)

Intermediate Level – Tuberculocidal, Bactericidal, Virucidal & Fungicidal in the presence of Bioburden

Colour: Orange | Scent: Orange, Peppermint, Eucalyptus

Protocol

Available Sizes:

1 L EcoPACK (02-MERS-001)

5 L EcoPACK (02-MERS-005)

Purpose:

BioMERS™ provides fast effective disinfection in the presence of bioburden, while minimizing the impact on the Environment, People and Equipment.

Suitable for:

Aseptic transport and immersion of medical devices and instruments. Disinfects glass, all metals and jewelry. As per IPAC best practices, BioMERS™ provides protection from adhesion of bioburden. Bacteriostatic when diluted in solution like pumice.

Applied Asepsis Concepts:

Micrylium has a product development strategy based on what we call “Chair Theory”. The four legs of a chair give it balance. Most products do not have this balance.

They may be one minute kill on TB, but 15 minutes on Polio. The chair legs concepts in Microbiology are Mycobacteria, non-enveloped viruses, fungal spores and gram negative bacteria. Our kill times are measured as the longest time to cover all benchmarks. BioMERS™ disinfects effectively in heavy blood/saliva and protein environments.

Halogens (Cl, Br, I), Quaternary Ammoniums and Peroxides are reactive with proteins limiting their ability to perform in many clinical settings.

Quality Commitment:

Our vision of asepsis holistically links the patient/client safety with the safety of professional staff. Our chemistry is based on antiseptics of pharma grade (USP EP BP NF) origin.

Quality Ingredients include biodegradable surfactants (many of which are plant based), USP grain derived absolute Ethanol and naturally derived scents. OECD 301D Tests conclude biodegradability (28 days). Our EcoPACK™ concept delivers fresh product (no Oxidation) and is fully recyclable. (EVOH bag/Recycled Corrugated Box).

1. Aseptic Transport - BioMERS™ may be used to transport, pre-clean and disinfect critical devices prior to sterilization. In the clinical environment, carefully dispense BioMERS™ from the EcoPack spigot into an instrument bath or snap-close glass container. As instruments or Medical Devices are used chairside/bedside, place them in the bath immediately after use as a pre-soak. This will protect the professional who needs to transport this to the Sterilization area. Keep bath covered at all times to prevent evaporation. When aseptically transporting instruments/tools in a snap-close glass bath with lid secured. Just use enough BioMERS™ to cover the instruments. When arriving in the sterilization area, rinse instruments with water in sink and place in an enzymatic detergent bath solution (Micrylium BioSON™) for 10 minutes. Best Practice – use a quality calibrated ultrasonic bath. Remove, rinse, dry and wrap or pouch in preparation for the sterilization process.

2. Immersion Disinfection - BioMERS™ is recommended for all professional settings that require cleaning and/or disinfection of non-critical and semi-critical devices and tools that cannot be sterilized. Immerse objects (Glass, Metal or Plastic) and Instruments (mixed metals) for a minimum of one minute and maximum 10 minutes.

BioMERS™ is ideal for disinfecting jewellery, dentures, acrylic materials, mouthguards and splints.

Avoid overnight soaking of rubber, non-crosslinked plastics or painted items. Will not corrode metals, even when chrome, stainless steel, carbide steel, brass or aluminum instruments are mixed.

Instructions for Use:

- 1) Carefully dispense BioMERS™ from the EcoPAK™ spigot into an instrument bath or covered container. Keep bath covered to prevent evaporation.
- 2) Immerse objects (Glass, Metal or Plastic) and Instruments (mixed metals) for a minimum of 1 minute. For plastics, silicone and acrylic a maximum of 10 minutes immersion is recommended. Stainless steel instruments can be left for up to 5 days in a closed bath or container.
- 3) BioMERS™ may be used chairside/bedside as a pre-soak for instruments to reduce risk prior to transporting them to the sterilization area.
- 4) BioMERS™ may also be used on heavily soiled devices or devices which have been contaminated with inks or oils to clean them prior to sterilization. Using BioMERS™ before sterilization can reduce the risk of cross contamination. Rinse with distilled or deionized water and dry before sterilization.
- 5) BioMERS™ can be used for disinfecting jewelry, dentures, hearing aids, mouth-guards and splints.

Caution: Use with care as the product is Flammable

Precautions:

USE FULL STRENGTH – Do Not Dilute. RTU (Ready To Use Formulation)

Do not use on surfaces that undergo rapid temperature changes.

AVOID CONCURRENT USE WITH BLEACH - Staining (yellow/brown) can occur. On some surfaces, including uniforms, this can be removed by soaking with Borax (Sodium Borate).

CAUTION - NOT FOR USE on acrylic latex painted surfaces or vinyl upholstery.

Avoid longer than 10 minutes contact time with rubber or silicone materials.

Helpful Tips:

Steam sterilization with regular validation and maintenance are the correct treatment for Medical Devices and Instruments requiring sterilization.

How long is BioMERS™ good for? The solution should be replaced weekly, when dirty or cloudy, or when the level (Volume < mL > in container) has reduced by more than 5%. This can also be monitored by a hydrometer (glass specific gravity instrument) as BioMERS™ has a relative density of 0.866 when compared with water at 1. The effective range is .860 to .890 SG. Best practice is Class B vacuum sterilization. Always rinse devices/tools and dry prior to placing in BioMERS™ to prevent dilution. Prior to sterilization, rinse and dry instruments. To ensure that the solution contains the appropriate amount of active ingredient (ethanol) use a Hydrometer daily. The reading should be .867 (+ - .02 at 20°)

See our website for specific details: www.micrylium.com/products

Clinical Test Results

2 hours

Bacillus subtilis ATCC 6633

Geobacillus stearothermophilus ATCC 12980

Not presently registered as a High Level Disinfectant

60 seconds

Mycobacterium bovis BCG (5% soil/bioburden)

Mycobacterium terrae ATCC 15755 (5% soil)

20 seconds (10% soil/bioburden)

Pseudomonas aeruginosa ATCC 15442

Salmonella enterica (choleraesuis) ATCC 10708

Staphylococcus aureus ATCC 6538

Escherichia coli NCTC 10541

Trichophyton mentagrophytes ATCC 9533

Trichophyton menhingi ATCC 12106