



The Use of Disinfectants in a Biosecurity Program

An appropriate disinfectant is an integral part of any biosecurity program. The goal, of course, is to prevent the transfer of disease organisms from one site to another. The coordinator of the biosecurity program must make two basic decisions: the organisms to be targeted, and the level of implementation.

There has justifiably been much concern about the possibility of Foot and Mouth Disease (FMD) arriving in the U.S. However, FMD is and has not been present in the US and there are other bacteria and viruses of concern to be considered in biosecurity programs such as Johne's disease, BVDV, contagious mastitis, and Salmonella, and respiratory viruses to name just a few of concern in ruminants.

As with any effective cleaning and disinfection protocol, the complete removal of all organic material prior to disinfection is essential. Chlorine based disinfectants are rapidly inactivated by the presence of even small amounts of organic matter and have no sustained effect and so, are not recommended for use as disinfectants. The disinfectants listed below are effective against mycobacteria (same class as the agent causing Johne's disease), and other cattle viruses and bacteria of concern. All should be used according to label directions. This listing should not be considered an endorsement by the NSYCHAP program.

Product: Potassium peroxymonosulfate and sodium chloride (Virkon-S).
Dilution: 1%
Mixing instructions: Follow label directions.
Notes: This European product is labeled as being efficacious against FMD virus. It is a dry product that is reconstituted prior to use.
Farnam Companies Inc., PO Box 34820, Phoenix, AZ 85067
1-888-241-9546

Product: Tek-Trol.
Dilution: ½ounce per gallon
Mixing instructions: Follow label directions.
Notes: Bio-Tek Industries, Inc., 1380 West Marietta St NW, PO Box 93746.
Atlanta, GA 30318. 1-800-843-7687

Product: Germicidal detergent (low pH phenolic) (1-716-394-7500)
Dilution: ½ounce per gallon
Mixing instructions: Follow label directions.
Notes: Abbey Industries, 3071 County Complex Dr., Canandaigua, NY 14424.

Product: 1 Stroke Environ (1-800-548-4873.)
Dilution: ½ounce per gallon
Mixing instructions: Follow label directions.
Notes: Steris Corp., 5960 Heisley Rd., Mentor, OH 44060.

Product: Gil-Phene (1-800-200-4162)
Dilution:
Mixing instructions: Follow label directions.
Notes: Gilmer Industries, PO Box 1265, Harrisonburg, VA 22801