

Product Bulletin

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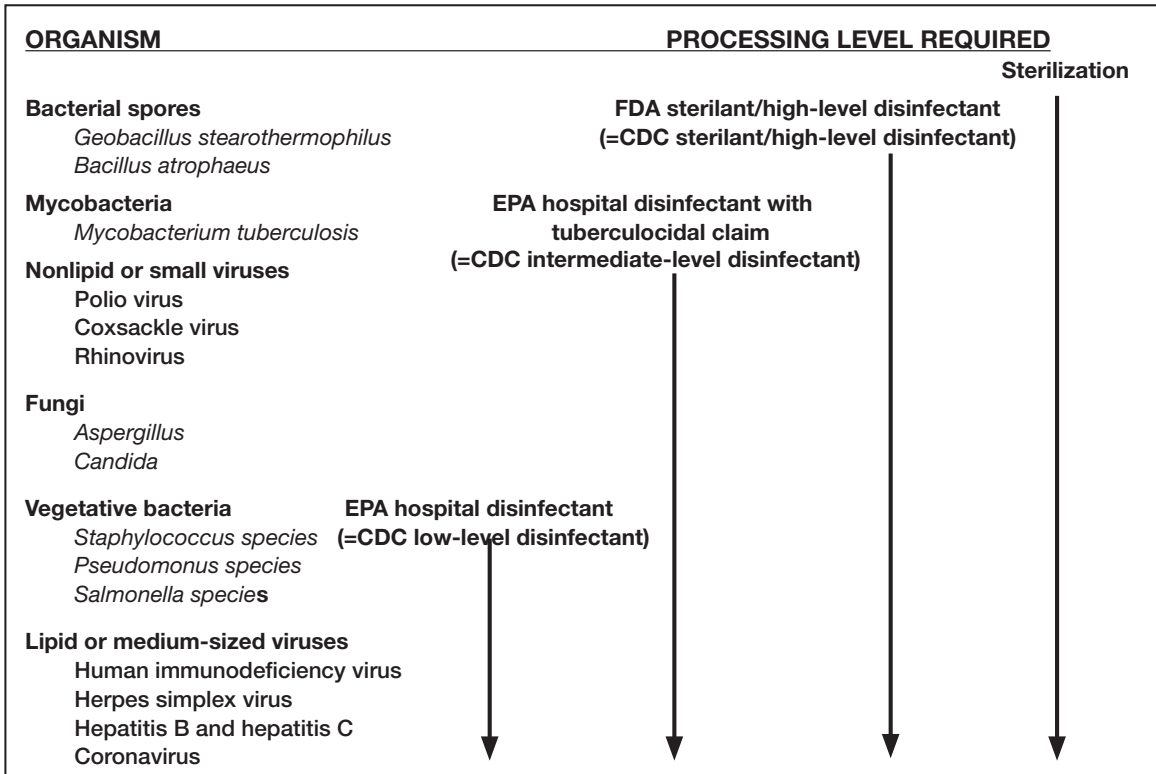
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Date: February 20, 2015

RE: RAPICIDE® HIGH LEVEL DISINFECTANT EFFICACY AGAINST CRE

RAPICIDE Disinfectants have been classified as a high level disinfectant (HLD) by the U.S. Food and Drug Administration (FDA). This means it is capable of inactivating all microorganisms. Even bacterial endospores will be destroyed by RAPICIDE Disinfectants if directly contacted for the required time. Confirmatory checks by outside laboratories are performed to show that inactivation happens with mycobacteria, viruses, fungi, and vegetative bacteria. Carbapenem –resistant enterobacteriaceae (CRE) is a Gram-negative bacterium resistant to many antibiotics but not disinfectants, *Salmonella* is also in this group located under the Vegetative bacteria portion of the chart. RAPICIDE Disinfectants will easily inactivate over 6 logs of this organism when contact time and temperature is appropriate for the specific disinfectant at 850 ppm. According to the *Decreasing order of resistance of microorganisms to germicidal chemicals chart* in Regulatory Framework for Disinfectants and Sterilants; fungi, Nonlipid viruses, mycobacteria and bacterial endospores are a tougher challenge to liquid germicides than CRE but RAPICIDE Disinfectants will kill/inactivate those.¹ According to the FDA definition of an HLD, RAPICIDE Disinfectants will inactivate CRE when used according to the manufacturer's Label claim.²

FIGURE. Decreasing order of resistance of microorganisms to germicidal chemicals



Source: Adapted from Bond WW, Ott BJ, Franke K, McCracken JE, Effective use of liquid chemical germicides on medical devices; instrument design problems. In: Block SS, ed. Disinfection, sterilization and preservation. 4th ed. Philadelphia, PA: Lea & Gebiger, 1991:1100.

References

- 1 W. Bond. Decreasing order of resistance of microorganisms to germicidal chemicals. *Regulatory Framework for Disinfectant and Sterilants*. 4th ed. Philadelphia, PA, 1991.
- 2 Guideline for the Use of High-Level Disinfectants and Sterilants for Reprocessing of Flexible Gastrointestinal Endoscopes. *Society of Gastroenterology Nurses and Associates*. First edition 1998. Revised 2003.

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