# Comparison of the Efficacy of Hydrogen Peroxide vs. Peracetic Acid

**From: Seymour S. Block; *Disinfection, Sterilization and Preservation*; 4th Edition**

**Lethality of Hydrogen Peroxide (pH 6-7)**

| Organism | Conc. (ppm) | Lethality (min) | Temp |
|---|---|---|---|
| *Staphylococcus aureus* | 1,000 | 60 | 24°C |
| *Staphylococcus aureus* | 258,000 | 12 sec | 24°C |
| *Escherichia coli* | 1,000 | 60 | 24°C |
| *Escherichia coli* | 500 | 30 | 24°C |
| *Streptococcus lactis* | 500 | 150 | 37°C |
| *Streptococcus faecalis* | 1,000 | 15 | 54°C |
| *Micrococcus spp.* | 30 | 10 | 24°C |
| *Lactobacillus vulgaricus* | 300 | 240 | 20°C |
| *Clostridium botulinum* | 1,000 | 15 | 54°C |

**Lethality of Peracetic Acid (pH 6-7)***

| Organism | Conc. (ppm) | Lethality (min) | Temp |
|---|---|---|---|
| *Staphylococcus aureus* | 80 | 30 sec | 20°C |
| *Escherichia coli* | 80 | 30 sec | 20°C |
| *Listeria monocytogenes* | 80 | 30 sec | 20°C |
| *Vibrio cholerae* | 80 | 30 sec | 20°C |
| *Klebsiella pheumoniae* | 80 | 30 sec | 20°C |
| *Lactobacillus spp.* | 80 | 30 sec | 20°C |

**GLP Study; Gibraltar Laboratories; 2013, 2015*

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