Sterilox has been extensively tested to demonstrate outstanding germicidal efficacy.

With a contact time of 10 minutes for High-Level Disinfection, Sterilox is effective in killing Bacterial Endospores, Bacteria (including Resistant Mycobacteria), Viruses and Fungi.
SPORICIDAL TEST RESULTS
Using the ADAC carrier test (966-04) Sterilox was tested against B subtilis and C. sporogenes spores on Dacron loops and porcelain penicillins.

Sterilox has also shown to be rapidly sporicidal against the following bacteria:

BACTERIAL TEST RESULTS
The ADAC Uise Dilution Test (955.14) was used to test the bactericidal activity of Sterilox at 20°C. The results show that Sterilox is bactericidal in a maximum time of 5 minutes.

TUBERCULOCIDAL TEST RESULTS
The ADAC Quantified Tuberculocidal expression test (965.12) was carried out using Sterilox at 20°C against Mycobacterium bovis (BCG). Sterilox is tuberculocidal at less than MRC in 10 minutes.

FUNGICIDAL TEST RESULTS
T. mentagrophytes was exposed to Sterilox according to the methods of the ADAC Fungicidal Activity of Disinfectants Test (955.17). No growth was observed within a 2.5 minute contact time. These results indicated there is a margin-of-safety in the high-level disinfection label claim of 10 minutes.

VIRUCIDAL TEST RESULTS
Sterilox was tested at 20°C against Herpes simplex using EPA virucidal methods test method (DIS/TSS-7). Sterilox effectively neutralized Herpes simplex virus within 5 minutes of exposure. These results indicate there is a margin-of-safety in the high-level disinfection label claim of 10 minutes.

CLINICAL IN-USE STUDIES
Study Location
Clinical in-use studies were performed at two UK hospitals, with Sterilox below its US MRC. A total of 12 Olympus bronchoscopes, 12 Olympus colonoscopes and 9 Olympus gastroscope were sampled at random using the following protocol:

1. 20 ml 0.9% saline samples were taken immediately from the suction channels following endoscope reprocessing.
2. After clinical procedures, all endoscopes were manually pre-cleaned following endoscope manufacturers’ instructions. The Sterilox disinfection cycle was of 5-minute duration. Sterilox at 180-220°FAC was used.
3. All samples were incubated on selective media at 37°C either aerobically or anaerobically for 3 to 5 days.

RESULTS
Results show Sterilox germside at well below its MRC to be completely effective in high-level disinfecting endoscopes in 5 minutes during routine clinical instrument reprocessing.

**Endoscope Model** | **Endoscope Contact Time & Temperature** | **% CFU Serum Organism Load** | **Average Site Inoculum CFU/ml** | **Endoscope Sites Tested** | **Result**
---|---|---|---|---|---
Olympus Duodeno-fibroscope | 10 min | 20°C | 6000CFU | S | Bacillus subtilis | 2.3 x 10^7 | 1.7 x 10^7 | 1.5 x 10^7 | 1.8 x 10^7 | Exterior Surface
| | | | | | Biopsy Channel | Elevator Guide Wire | Air Water Channel Rinse | **Log 6 kill** |
Pentax Colonoscope | 30 min | 20°C | 6000CFU | S | Bacillus subtilis | 1.1 x 10^7 | 6.1 x 10^6 | 4.0 x 10^6 | 1.3 x 10^6 | Exterior Surface
| | | | | | Biopsy Channel | Elevator Guide Wire | Air Water Channel Rinse | **Log 6 kill** |
Olympus Bronchoscope | 30 min | 20°C | 6000CFU | S | Mycobacterium | 2.8 x 10^7 | 2.3 x 10^7 | 2.4 x 10^7 | 9.6 x 10^6 | Exterior Surface
| | | | | | terrae | Biopsy Channel | Elevator Guide Wire | Air Water Channel Rinse | **Log 6 kill** |
Pentax Colonoscope | 10 min | 20°C | 6000CFU | S | Mycobacterium | 6.1 x 10^6 | 1.8 x 10^6 | 1.4 x 10^6 | 1.1 x 10^6 | Exterior Surface
| | | | | | terrae | Biopsy Channel | Elevator Guide Wire | Air Water Channel Rinse | **Log 6 kill** |

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