



# CHEMGENE HLD4H

## VIRUCIDAL ACTIVITY

**BS EN 14476:2005** - Chemical disinfectants and antiseptics. Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine. Test method and requirements (phase 2, step 1)

**Standard test organisms**

Adenovirus and Poliovirus

**Obligatory** Lg reduction  $\geq 4$  (Requirements may vary by claim)

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
Adenovirus	BLUTEST	1:100	EN14476 DIRTY	LOG 3.67
Parvovirus	BLUTEST	1:50	EN14476 DIRTY	> LOG 4
Hepatitis B	ATS LABS	1:50	EN14476 CLEAN	LOG 4.67
Herpes Simplex	BLUTEST	1:50	EN14476 DIRTY	LOG 4.16
Human Immunodeficiency Virus	BLUTEST	1:50	EN14476 DIRTY	LOG 4.50
Norovirus	BLUTEST	1:50	EN14476 DIRTY	LOG 4.00

## MYCOBACTERICIDAL ACTIVITY

**EN 14348** - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants – Test method and requirements (phase 2, step 1)

**Standard test organisms**

*Mycobacterium avium*, *Mycobacterium terrae*

**Test conditions**

Clean conditions (0.3g/l bovine albumin)- Dirty conditions (3.0g/l bovine albumin + 3.0ml/l sheep erythrocytes)

**Obligatory** Lg reduction  $\geq 4$  in 60 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Mycobacterium avium</i>	CHEMILA	1:20	EN14348 CLEAN	> LOG 4
<i>Mycobacterium avium</i>	CHEMILA	1:20	EN14348 DIRTY	> LOG 4
<i>Mycobacterium terrae</i>	CHEMILA	1:20	EN14348 CLEAN	> LOG 4
<i>Mycobacterium terrae</i>	CHEMILA	1:20	EN14348 DIRTY	> LOG 4

## SPORICIDAL ACTIVITY

**EN 14347** - Chemical disinfectants and antiseptics – Basic sporicidal activity – Test method and requirements (phase 1)

**Standard test organisms**

*Bacillus subtilis*, *Bacillus cereus*

**Obligatory** Lg reduction  $\geq 3$  in 60 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Bacillus cereus</i>	ABBOTT ANALYTICAL	1:50 (10 deg C)	EN14347	LOG 3.18
<i>Bacillus subtilis</i>	ABBOTT ANALYTICAL	1:50 (10 deg C)	EN14347	LOG 3.17



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## BACTERICIDAL ACTIVITY

**EN 1276** - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)

### Standard test organisms

*Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus hirae*

### Test conditions

Clean conditions (0.3g/l bovine albumin) - Dirty conditions (3.0g/l bovine albumin)

Industry specific (must also pass under standard dirty conditions)

**Obligatory** Log reduction  $\geq 5$  in 5 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Acinetobacter calcoaceticus</i>	ABBOTT ANALYTICAL	1:30	EN1276 Dirty	> LOG 5
<i>Enterococcus hirae</i>	BLUTEST	1:100	EN1276 Dirty	> LOG 5
<i>Escherichia coli</i>	BLUTEST	1:100	EN1276 Dirty	> LOG 5
<i>Listeria monocytogenes</i>	ABBOTT ANALYTICAL	1:100	EN1276 Dirty	> LOG 5
Methicillin -resistant <i>Staphylococcus aureus</i>	ABBOTT ANALYTICAL	1:100	EN1276 Dirty	> LOG 5
Methicillin-resistant <i>Staphylococcus pseudintermedius</i>	ABBOTT ANALYTICAL	1:100	EN1276 Dirty	> LOG 5
<i>Pseudomonas aeruginosa</i>	BLUTEST	1:100	EN1276 Dirty	> LOG 5
<i>Salmonella tryphimurium</i>	ABBOTT ANALYTICAL	1:100	EN1276 Dirty	> LOG 5
<i>Staphylococcus aureus</i>	BLUTEST	1:100	EN1276 Dirty	> LOG 5
<i>Streptococcus</i>	ABBOTT ANALYTICAL	1:100	EN1276 Dirty	> LOG 5

**EN 13697** - Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements without mechanical action (phase 2, step 2)

### Standard test organisms

**BACTERIA** - *Pseudomonas aeruginosa*, *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus hirae*

### Test conditions

Clean conditions (0.3g/l bovine albumin)- Dirty conditions (3.0g/l bovine albumin)

Industry specific (must also pass under standard dirty conditions)

### Obligatory

Bacteria - Log reduction  $\geq 4$  in 5 minutes at 20°C, FUNGI Log reduction  $\geq 3$  in 15 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Enterococcus hirae</i>	BLUTEST	1:100	EN13697 Dirty	> LOG 5
<i>Escherichia coli</i>	BLUTEST	1:100	EN13697 Dirty	> LOG 5
<i>Pseudomonas aeruginosa</i>	BLUTEST	1:100	EN13697 Dirty	> LOG 5
<i>Staphylococcus aureus</i>	BLUTEST	1:100	EN13697 Dirty	> LOG 5



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## FUNGICIDAL ACTIVITY

**EN 1650** - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements (phase 2, step 1)

**Standard test organisms**

*Aspergillus niger, Candida albicans*

**Test conditions**

Clean conditions (0.3g/l bovine albumin)- Dirty conditions (3.0g/l bovine albumin)

Industry specific (must also pass under standard dirty conditions)

**Obligatory** Lg reduction  $\geq 4$  in 15 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Aspergillus niger</i>	ABBOTT ANALYTICAL	1:100 (10 deg C)	EN1650 DIRTY	> LOG 4
<i>Candida albicans</i>	ABBOTT ANALYTICAL	1:100 (10 deg C)	EN1650 DIRTY	> LOG 4
<i>Microsporium</i>	ABBOTT ANALYTICAL	1:100	EN1650 DIRTY	> LOG 4
<i>Trichophyton rubrum</i>	ABBOTT ANALYTICAL	1:100	EN1650 DIRTY	> LOG 4

## FUNGICIDAL ACTIVITY (cont.)

**EN 13697** - Chemical disinfectants and antiseptics – Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas – Test method and requirements without mechanical action (phase 2, step 2)

**Standard test organisms**

FUNGI - *Aspergillus niger, Candida albicans*

**Test conditions**

Clean conditions (0.3g/l bovine albumin)- Dirty conditions (3.0g/l bovine albumin)

Industry specific (must also pass under standard dirty conditions)

**Obligatory**

Bacteria - Log reduction  $\geq 4$  in 5 minutes at 20°C, FUNGI Log reduction  $\geq 3$  in 15 minutes at 20°C

ORGANISM	LABORATORY	DILUTION	METHOD	RESULTS
<i>Candida albicans</i>	BLUTEST	1:100	EN13697 DIRTY	> LOG 4

## HLD4 formulation has also been tested under EN1040 and EN1275

**EN 1040** - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics – Test method and requirements (phase 1)

**Standard test organisms**

*Pseudomonas aeruginosa, Staphylococcus aureus*

**Obligatory** Lg reduction  $\geq 5$  in 5 minutes at 20°C

**EN 1275** - Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of basic fungicidal or basic yeasticidal activity of chemical disinfectants and antiseptics – Test method and requirements (phase 1)

**Standard test organisms**

*Aspergillus niger, Candida albicans*

**Obligatory** Lg reduction  $\geq 4$  in 15 minutes at 20°C