

Chemgene MEDLAB.

MICROBIOLOGICAL EFFICACY

Chemgene MEDLAB has been tested to the following European PT2 test standards.

Medical

- EN13727 & EN17387 (bactericidal)
- EN13624 & EN17387 (yeasticidal, fungicidal)
- EN16777 (virucidal – all enveloped viruses)
- EN16777 (Adenovirus, Norovirus)

Domestic

- EN14476 (virucidal – all enveloped viruses)
- EN14476 (Adenovirus, Norovirus)

Other

- EN13623 (Legionella)
- EN13610 (Bacteriophage)



DILUTION CHART

Effective against	Dilution rate	Contact time
Bactericidal incl. ESKAPE organisms, Moraxella, Streptococcus pyrogenes, E.coli	1 %	5 mins
Bactericidal Legionella	1 %	10 mins
Yeasticidal incl. Candida alicans, Candida auris	1 %	10 mins
Virucidal (enveloped viruses) incl. Vaccinia virus, HIV, Hepatitis B & C, Herpes Simplex, Coronavirus	1 %	10 mins
Fungicidal incl. Aspergillus brasilliensis	5 %	10 mins
Virucidal (non-enveloped viruses)		
Adenovirus	10 %	5 mins
Norovirus	10 %	30 mins

BACTERICIDAL EFFICACY

Test organisms	Test Ref	Test conditions	Test result
Acinetobacter baumannii	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
Enterobacter cloacae	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
Enterococcus faecium	EN13727	5 mins / low soil / 1%, 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
Enterococcus hirae	EN13727	5 mins / high soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / high soil / 2% / 20 °C	>5 log reduction
Escherichia coli	EN13727	5 mins / high soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
Klebsiella pneumoniae	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1%, 20 °C	>5 log reduction
Legionella pneumophila	EN13623	10 mins / low soil / 1% / 20 °C	>4 log reduction
	EN13623	5 mins / low soil / 2% / 20 °C	>4 log reduction
Methicillin-resistant Staphylococcus aureus	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 min, low soil / 1% / 20 °C	>5 log reduction
Moraxella catarrhalis	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil, 1% / 20 °C	>5 log reduction
Pseudomonas aeruginosa	EN13727	5 mins / low soil, 1% / 20 °C	>5 log reduction
	EN13727	5 mins / high soil / 2% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction
Staphylococcus aureus	EN17387	5 mins / high soil / 2% / 20 °C	>5 log reduction
	EN13727	5 mins / high soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil, 1% / 20 °C	>5 log reduction
Streptococcus pyogenes	EN17387	5 mins / high soil, 2% / 20 °C	>5 log reduction
	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
Streptococcus pyogenes	EN13727	5 mins / low soil / 1% / 20 °C	>5 log reduction
	EN17387	5 mins / low soil / 1% / 20 °C	>5 log reduction

Chemgene MEDLAB: MICROBIOLOGICAL EFFICACY

VIRUCIDAL EFFICACY

Test organisms	Test Ref	Test conditions	Test result
Vaccinia virus including Coronavirus, Hepatitis B, Hepatitis C, Herpes simplex, HIV	EN14476	1 min / low soil / 1% / 20 °C	>4 log reduction
	EN14476	15 mins / high soil / 2% / 2 °C	>4 log reduction
	EN16777	10 mins / low soil / 1% / 20 °C	>4 log reduction
	EN16777	15 mins / high soil / 2% / 20 °C	>4 log reduction
Adenovirus	EN14476	5 mins / low soil / 10% / 20 °C	>4 log reduction
	EN16777	5 mins / low soil / 10% / 20 °C	>4 log reduction
Norovirus	EN14476	2 mins / low soil / 10% / 20 °C	>4 log reduction
	EN14476	5 mins / low soil / 5% / 20 °C	>4 log reduction
	EN16777	30 mins / low soil / 10% / 20 °C	>4 log reduction
	EN16777	45 mins / low soil / 5% / 20 °C	>4 log reduction

YEASTICIDAL/FUNGICIDAL EFFICACY

Test organisms	Test Ref	Test conditions	Test result
Aspergillus brasiliensis	EN13624	10 mins / low soil / 5% / 20 °C	>4 log reduction
	EN17387	10 mins / low soil / 5% / 20 °C	>4 log reduction
Candida albicans	EN13624	5 mins / high soil / 1% / 20 °C	>4 log reduction
	EN17387	5 mins / high soil / 2% / 20 °C	>4 log reduction
Candida auris	EN13624	5 mins / low soil / 2% / 20 °C	>4 log reduction
	EN17387	5 mins / low soil / 2% / 20 °C	>4 log reduction
	EN17387	10 mins / low soil / 1% / 20 °C	>4 log reduction

VIRUCIDAL EFFICACY AGAINST BACTERIOPHAGES

Test organisms	Test Ref	Test conditions	Test result
Lactococcus lactis subsp. lactis P001 DSM 4262	EN13610	5 mins / 1% acidic whey / 0.5% / 20 °C	>4 log reduction
Lactococcus lactis subsp. lactis P008 DSM 10567	EN13610	5 min, 1% acidic whey, 1%, 20 °C	>4 log reduction

ADDITIONAL DATA

Test method	Test result
Preservative Efficacy Testing	Complies with the test for the Efficacy of Antimicrobial Preservatives (European Pharmacopoeia 11th Edition)
DNA Denaturation	Effective at denaturing DNA in 5 mins, at 1% dilution
Stain and odour testing	Effective at removing staining and odour from carpet tiles caused by common household agents including red wine, coffee, garden soil and cat vomit, at 20% dilution
Hard surface cleaning test	Effective at cleaning both synthetic vomit and blood stains from polyurethane substrate (substitute for hard flooring), at 2% dilution

