

# Chemgene MEDLAB.

## MICROBIOLOGICAL EFFICACY

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

### Medical

- EN13727 & EN17387 (bactericidal)
- EN13624 & EN17387 (yeastcidal, fungicidal)
- EN16777 (virucidal – all enveloped viruses)
- EN16777 (Adenovirus, Norovirus)
- EN14348 (Mycobactericidal)
- EN16615 (disinfectant wipe test)

### Domestic

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

### Other

- EN13623 (Legionella)
- EN13610 (Bacteriophage)

### DILUTION CHART

Effective against	Dilution	Contact time
<b>Bactericidal.</b> Incl. ESKAPE organisms, Moraxella, Streptococcus pyrogenes, E.coli	1 %	5 mins
<b>Bactericidal.</b> Legionella	1 %	10 mins
<b>Bacteriophages</b>	1 %	5 mins
<b>Yeasticidal.</b> Incl. Candida alicans, Candida auris	1 %	10 mins
<b>Virucidal (enveloped viruses).</b> Incl. Vaccinia virus, HIV, Hepatitis B & C, Herpes Simplex, Coronavirus	1 %	10 mins
<b>Fungicidal.</b> Incl. Aspergillus brasiliensis	5 %	10 mins
<b>Virucidal (non-enveloped viruses).</b> Adenovirus Norovirus	10 % 10 %	5 mins 30 mins
<b>Mycobactericidal<sup>1)</sup></b> Mycobacterium avium Mycobacterium terrae	5 % min. 5 % min.	60 mins 60 mins

<sup>1)</sup> Applicable to concentrate/ready to use spray only. Efficacy is not applicable to wipes.



[starlab.click/disinfectant](http://starlab.click/disinfectant)

### YEASTICIDAL/FUNGICIDAL EFFICACY

Test organisms	Test ref	Formula	Test conditions	Test result
<b>Aspergillus brasiliensis</b>	EN13624	Conc 5%	10 mins / low soil / 20 °C	>4 log reduction
		RTU	5 mins / high soil / 20 °C	
		Wipes	30 mins / low soil / 20 °C	
	EN17387	Conc 5%	10 mins / low soil / 20 °C	>4 log reduction
		RTU	10 mins / low soil / 20 °C	
		RTU	30 mins / high soil / 20 °C	
<b>Candida albicans</b>	EN13624	Conc 1%	5 mins / high soil / 20 °C	>4 log reduction
		RTU	1 min / high soil / 20 °C	
		Wipes	1 min / low soil / 20 °C	
	EN17387	Conc 1%	10 mins / low soil / 20 °C	>4 log reduction
		Conc 2%	5 mins / high soil / 20 °C	
		RTU	2 mins / high soil / 20 °C	
EN16615	RTU	5 mins / low soil / 20 °C	>4 log reduction <sup>1)</sup>	
	Wipes	1 min / low soil / 20 °C		
	Conc 2%	5 mins / low soil / 20 °C		
<b>Candida auris</b>	EN13624	RTU	1 min / high soil / 20 °C	>4 log reduction
		Wipes	1 min / low soil / 20 °C	
		Conc 1%	10 mins / low soil / 20 °C	
	EN17387	Conc 2%	5 mins / low soil / 20 °C	>4 log reduction
		RTU	2 mins / high soil / 20 °C	
		Conc 2%	5 mins / low soil / 20 °C	

# MICROBIOLOGICAL EFFICACY

## BACTERICIDAL EFFICACY

Test organisms	Test ref	Formula	Test conditions	Test result	
<b>Acinetobacter baumannii</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
		Wipes	1 min / low soil / 20 °C		
	EN17387	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
	<b>Enterobacter cloacae</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
RTU			1 min / high soil / 20 °C		
Wipes			1 min / low soil / 20 °C		
EN17387		Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
<b>Enterococcus faecium</b>		EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
	RTU		1 min / high soil / 20 °C		
	EN17387	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
	<b>Enterococcus hirae</b>	EN13727	Conc 1%	5 mins / high soil / 20 °C	>5 log reduction
			RTU	1 min / high soil / 20 °C	
Wipes			1 min / low soil / 20 °C		
EN17387		Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		Conc 2%	5 mins / high soil / 20 °C		
EN16615		RTU	1 min / high soil / 20 °C	>5 log reduction <sup>1)</sup>	
	Wipes	1 min / low soil / 20 °C			
<b>Escherichia coli</b>	EN13727	Conc 1%	5 mins / high soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
		Wipes	1 min / low soil / 20 °C		
	EN17387	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction	
		RTU	1 min / high soil / 20 °C		
	<b>Klebsiella pneumoniae</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
RTU			1 min / high soil / 20 °C		
EN17387		Wipes	1 min / low soil / 20 °C	>5 log reduction	
		Conc 1%	5 mins / low soil / 20 °C		
RTU		1 min / high soil / 20 °C			

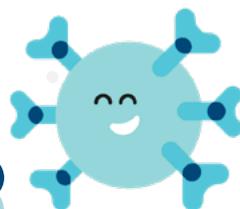
<sup>1)</sup> Modified Stainless Steel

## BACTERICIDAL EFFICACY

Test organisms	Test ref	Formula	Test conditions	Test result
<b>Legionella pneumophila</b>	EN13623	Conc 1%	10 mins / low soil / 20 °C	>4 log reduction
		Conc 2%	5 mins / low soil / 20 °C	
		RTU & Wipes	1 min / 0.0005% yeast extract / 20 °C	
<b>Methicillin-resistant Staphylococcus aureus (MRSA)</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
		RTU	1 min / high soil / 20 °C	
	EN17387	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
		RTU	1 min / high soil / 20 °C	
<b>Moraxella catarrhalis</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
		RTU	1 min / high soil / 20 °C	
		Wipes	1 min / low soil / 20 °C	
	EN17387	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
		RTU	1 min / high soil / 20 °C	
		Wipes	1 min / low soil / 20 °C	
<b>Pseudomonas aeruginosa</b>	EN13727	Conc 1%	5 mins / low soil / 20 °C	>5 log reduction
		Conc 2%	5 mins / high soil / 20 °C	
		RTU	1 min / high soil / 20 °C	
	EN17387	Wipes	1 min / low soil / 20 °C	>5 log reduction
		Conc 1%	5 mins / low soil / 20 °C	
	EN16615	Conc 2%	5 mins / high soil / 20 °C	>5 log reduction
RTU		1 min / high soil / 20 °C		
<b>Staphylococcus aureus</b>	EN13727	RTU	5 mins / low soil / 20 °C	>5 log reduction <sup>1)</sup>
		Wipes	1 min / low soil / 20 °C	
		Conc 1%	5 mins / high soil / 20 °C	
	EN17387	RTU	1 min / high soil / 20 °C	>5 log reduction
		Wipes	1 min / low soil / 20 °C	
		Conc 1%	5 mins / low soil / 20 °C	
EN16615	Conc 2%	5 mins / high soil / 20 °C	>5 log reduction	
	RTU	1 min / high soil / 20 °C		
	Wipes	1 min / low soil / 20 °C		
<b>Streptococcus pyogenes</b>	EN13737	RTU	5 mins / low soil / 20 °C	>5 log reduction
		Wipes	1 min / low soil / 20 °C	
		Conc 1%	5 mins / low soil / 20 °C	
	EN17387	RTU	1 min / high soil / 20 °C	>5 log reduction
		Wipes	1 min / low soil / 20 °C	
		Conc 1%	5 mins / low soil / 20 °C	
RTU	1 min / high soil / 20 °C			

<sup>1)</sup> Modified Stainless Steel

# MICROBIOLOGICAL EFFICACY



## VIRUCIDAL EFFICACY

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

## VIRUCIDAL EFFICACY AGAINST BACTERIOPHAGES

Test organisms	Test ref	Formula tested	Test conditions	Test result
Lactococcus lactis subsp. lactis P001 DSM 4262	EN13610	Conc & RTU	5 mins / 1% acidic whey / 0.5% / 20 °C	>4 log reduction
Lactococcus lactis subsp. lactis P008 DSM 10567	EN13610	RTU	5 mins / 1% acidic whey / 0.5%, 20 °C	>4 log reduction
Lactococcus lactis subsp. lactis P008 DSM 10567	EN13610	Conc	5 mins / 1% acidic whey / 1%, 20 °C	>4 log reduction

## MYCOBACTERIAL EFFICACY

Test organisms	Test ref	Formula	Test conditions	Test result
Mycobacterium avium	EN14348	Conc 5%	60 mins / high soil / 20 °C	>4 log reduction
		RTU	60 mins / high soil / 20 °C	
Mycobacterium terrae	EN14348	Conc 5%	60 mins / high soil / 20 °C	>4 log reduction
		RTU	60 mins / high soil / 20 °C	

Wipes are not included within this EN14348 efficacy statement.

## ADDITIONAL DATA

Test method	Test result
<b>Preservative Efficacy Testing</b>	Complies with the test for the Efficacy of Antimicrobial Preservatives (European Pharmacopoeia 11th Edition)
<b>DNA/RNA Denaturation</b>	Effective at denaturing DNA / RNA in 5 mins, at 1% dilution. The DNA/ RNA's molecular structure is disrupted, making it non-functional (inactivated).
<b>Stain and odour testing</b>	Effective at removing staining and odour from carpet tiles caused by common household agents including red wine, coffee, garden soil and synthetic cat vomit, at 20% dilution
<b>Hard surface cleaning test</b>	Effective at cleaning both synthetic cat vomit and blood stains from polyurethane substrate (substitute for hard flooring), at 2% dilution. Spray formula is proven to be compatible with dry wipes and microfibre clothes



**Chemgene MEDLAB multi-surface disinfectants** are compliant with regulations in the UK & EU including the Biocidal Products Regulation (BPR), Classification of Labelling and Packaging (CLP) and Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) regulations.