

Chemgene MEDLAB.

MULTI-SURFACE DISINFECTANT

Chemgene MEDLAB multi-surface disinfectant delivers a new, unique formulation. The combination of active substances in Chemgene MEDLAB ensure that equipment and instruments can be routinely cleaned and disinfected to a consistently high standard, with less risk of antimicrobial resistance.

Chemgene MEDLAB is suitable for the cleaning and disinfection of a variety of surfaces, instruments and equipment in laboratory, medical and forensic settings, against bacteria, mycobacteria, yeast, fungi, enveloped viruses, adenovirus, norovirus and bacteriophage.

PRODUCT FEATURES

- Non-corrosive
- Biodegradable ingredients
- Alcohol & chlorine free
- No rinsing required
- 2-year shelf life
- Made in UK
- Complies with BPR, CLP and REACH

Passionate for science.



CONCENTRATE

- Economical dilution rates
- Diluted solution effective for 3 months
- Recycled & recyclable packaging



WIPES

- Quick and convenient disinfection
- Each wipe disinfects 1m²
- Wipes are plastic-free & biodegradable

EXCEPTIONAL ANTIMICROBIAL ACTIVITY!

- Bacteria
- Yeast
- Fungi
- Enveloped viruses
- Adenovirus & Norovirus
- Bacteriophage
- Denatures RNA/DNA
- Mycobacteria



READY TO USE SPRAY

- Effective from 60 seconds
- Convenient, reliable pre-diluted formula
- Recycled & recyclable packaging



ORDERING INFORMATION

| | CONCENTRATE | | | READY TO USE SPRAY | | WIPES | ACCESSORIES | |
|------------------------------|---|--|---|--|---|---|---|---|
| |  |  |  |  |  |  |  |  |
| Description | 1 Litre Self-Dosing Container Chemgene MEDLAB Multi Surface Disinfectant Clear, Unfragranced 100% | 5 Litre Pump Container Chemgene MEDLAB Multi Surface Disinfectant Clear, Unfragranced 100% | 5 Litre Pump Container Chemgene MEDLAB Multi Surface Disinfectant Blue, Eucalyptus 100% | 750 ml Ready to Use Spray Chemgene MEDLAB Multi Surface Disinfectant Clear, Unfragranced 10% | 750 ml Ready to Use Spray Chemgene MEDLAB Multi Surface Disinfectant Blue, Eucalyptus 10% | 96-Wipe Resealable Flow Wrap Chemgene MEDLAB Multi Surface Disinfectant 10% | Pump for use with 5 Litre Containers 10 ml dosage | 1 litre Empty, Reusable Trigger Spray Bottle Made from 100% recycled HDPE For compliant storage of diluted disinfectant |
| Article No. Pack Size | SKU074A 6 x 1 Litre | SKU075A 2 x 5 Litres | SKU077A 2 x 5 Litres | SKU093A 6 x 750 ml | SKU095A 6 x 750 ml | SKU101A 6 x 96-Wipe Flow Wraps | TR021 1 x Pump | SKU084A 5 x Bottles |

 starlab.click/disinfectant

| TECHNICAL DATA | | | | |
|----------------------------------|--|---|--|--------------------------|
| | CONCENTRATE | | READY TO USE SPRAY | WIPES |
| Volume / Size | 1 L or 5 L | | 750 ml | 200 mm x 180 mm (45 gsm) |
| Shelf life | 2 years, at optimal storage conditions. Diluted concentrate is effective for 3 months. | | 2 years, at optimal storage conditions. | |
| Storage conditions | Store at ambient temperature in a closed container. Protect from frost. Protect from heat. Keep away from oxidising substances. Incompatibility with other materials: oxidising substances, anionics, peroxides, acids. | | | |
| pH | 100%: 10.50 – 11.40 10%: 9.50 – 11.00 | 1% & 2%: 9.00 – 10.00 20%: 10.50 – 11.40 | 10.00 – 11.00 | 9.00 – 10.00 |
| Application areas | Disinfectants and algacides. Not intended for direct application to humans or animals. Not to be used on medical devices. Remove excess soiling prior to disinfection. | | | |
| Material compatibility | Suitable for the cleaning and disinfection of an array of hard surfaces, instruments and equipment. Material compatibility testing has been carried out on the following materials up to 20% dilution: stainless steel, mild steel, copper, nylon, acetal and rubber; aluminium at 10%, and; polyurethane substrate, wool carpets & rugs at 2% dilution. | | | |
| Disposal method | Concentrate must be diluted first. Once diluted (maximum 10%), Chemgene MEDLAB can be disposed of to drains and flushed with as much clean water as practical. This statements refers to unused product only. For used product, disposal must be in accordance with either national regulations or your institution's own guidelines on disposal of hazardous waste. | | Dispose of used wipes in general waste or clinical waste as appropriate. Wipes are biodegradable within 3 months. | |
| Sustainability attributes | 5 L container: HDPE (35% PCR). 5 L cap: HDPE. 1 L container: HDPE (50% PCR). 1 L cap: PP (50% PCR). Shipper box: 100% recycled cardboard. All packaging is recyclable. Made in UK. | | Bottle: HDPE (30% PCR). Trigger: PP (with PE dip tube). Shipper box: 100% recycled cardboard. All packaging is recyclable. Made in UK. | |

PCR = Post consumer recycle.

**EXCEPTIONAL
ANTIMICROBIAL
ACTIVITY!**

CLEANING & DISINFECTION TO CONSISTENTLY HIGH STANDARDS

SUITABLE APPLICATIONS

- Benches and worksurfaces
- Fume hoods
- Biosafety cabinets
- Incubators and refrigerators
- Autoclaves
- Water baths (always rinse with clean water before refilling)
- Pipettes and pipette tips
- Cell cultures
- Discard jars
- Glassware
- Instruments and equipment eg. balances, mixers, shakers
- Computer equipment
- Sample containers
- Storage bins
- Waste disposal bins/areas
- Sinks and taps
- Door handles
- Light switches
- Walls
- Floors

USE IN THE LABORATORY

Protection from pathogenic microorganisms

Carry out your daily tasks safe in the knowledge that you are protected from the risk of infection, even in the presence of organic spills. Use for the cleaning and disinfection of surfaces, instruments and lab equipment, including benches, shelves, fridges, water baths, centrifuges, incubators, discard jars, pipettes and non-medical devices.

USE IN HEALTHCARE SETTINGS

Protection from multi-drug resistant pathogens

Effective infection prevention and control in the healthcare environment for cleaning and disinfection to consistently high standards. Use for the cleaning and disinfection of walls, floors, surfaces, furniture, frequent touch-points and non-critical equipment.

FORENSIC USE

Protection from cross-contamination

Protect against the risk of infection and prevent cross-contamination of DNA between crime scenes. Effective in denaturing DNA & RNA on a wide range of equipment including nitrile gloves, aluminium stepping plates, drying cabinets and disrobing tents, providing exceptional efficacy against relevant human health pathogens both in and outside the lab.

CONCENTRATE

Directions for use: Refer to the Safety Data Sheet before use. Remove excess soiling prior to disinfection. Prepare the concentration of disinfectant solution according to the dilution table:



DILUTION CHART

| Effective against | Dilution | Contact time |
|---|----------------------|--------------------|
| Bactericidal. Incl. ESKAPE organisms, Moraxella, Streptococcus pyrogenes, E.coli | 1 % | 5 mins |
| Bactericidal. Legionella | 1 % | 10 mins |
| Bacteriophages | 1 % | 5 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 brasiliensis | 5 % | 10 mins |
| Virucidal (non-enveloped viruses). Adenovirus Norovirus | 10 % 10 % | 5 mins 30 mins |
| Mycobactericidal¹⁾ Mycobacterium avium Mycobacterium terrae | 5 % min. 5 % min. | 60 mins 60 mins |

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

TRIGGER SPRAY

Directions for use: Refer to the Safety Data Sheet before use. Remove any visible dirt or soiling prior to disinfection. Direct spray nozzle to the surface, hold the trigger and apply product liberally to the surface. Leave for the required contact time before wiping away any excess solution. Leave to air dry.



WIPES

Directions for use: Refer to the Safety Data Sheet before use. Remove any visible dirt or soiling before disinfecting. Apply wipe to the surface in a "S" pattern, ensuring full coverage. Each wipe is suitable for disinfecting a surface area of 1m². Avoid wiping the same area twice and use a new wipe for each new surface to avoid cross-contamination. Leave surface to dry naturally. Reseal pack after use!



Please also refer to the Safety Data Sheets: starlab.click/disinfectant

WHICH FORMULA?

CONCENTRATE

Provides economical dilution rates for everyday cleaning and disinfection. Dilute to 1% for general disinfection or to 10% for high-risk and biohazard conditions. Available in two sizes, the 1 L self-dosing bottle has volume markers to help with consistent, correct dilution. A pump is available for the 5 L containers which delivers a 10 ml dose and reduces the risk of spills during dilution. An empty 1 L reusable spray bottle is also available for compliant storage of diluted disinfectant. Effective from 1 minute*.



1 L Empty Reusable, Spray Bottle for the compliant storage of diluted disinfectant. 1 L volume aids easy dilution from concentrate. Ergonomic trigger for comfortable use. Bottle made from 100% recycled HDPE.

READY TO USE SPRAY

Provides a reliable, pre-diluted formula (10%) for quick and convenient use in medical settings and high risk areas. Chemgene MEDLAB ready to use spray is a superior disinfectant for specialist use, which is effective in just 60 seconds*.

WIPES

For quick and convenient disinfection, Chemgene MEDLAB wipes have a plastic-free substrate that is thicker and more absorbent than other wipes for a better user experience. Ideal for removing dirt, germs and DNA from surfaces, each wipe dispenses enough (10%) disinfectant to cover 1 m² with rapid disinfection from 60 seconds*.

*See **Microbiological Efficacy** for more info on contact times.

EXCEPTIONAL MICROBIOLOGICAL ACTIVITY

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)
- EN14348 (Mycobactericidal)
- EN16615 (disinfectant wipe test)

Domestic

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

Other

- EN13623 (Legionella)
- EN13610 (Bacteriophage)



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.

ADDITIONAL DATA

| Test method | Test result |
|--------------------------------------|--|
| Preservative Efficacy Testing | Complies with the test for the Efficacy of Antimicrobial Preservatives (European Pharmacopoeia 11th Edition) |
| DNA/RNA Denaturation | Effective at denaturing DNA / RNA in 5 mins, at 1% dilution. The DNA/ RNA's molecular structure is disrupted, making it non-functional (inactivated). |
| 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 synthetic cat vomit, at 20% dilution |
| Hard surface cleaning test | 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 |

MICROBIOLOGICAL EFFICACY

BACTERICIDAL EFFICACY

| Test organisms | Test ref | Formula | Test conditions | Test result | |
|--------------------------------|------------------------------|--------------------------|----------------------------|--------------------------------|------------------|
| Acinetobacter baumannii | 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 | | |
| | Enterobacter cloacae | 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 | | |
| Enterococcus faecium | | 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 | | |
| | Enterococcus hirae | 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 ¹⁾ | |
| | Wipes | 1 min / low soil / 20 °C | | | |
| Escherichia coli | 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 | | |
| | Klebsiella pneumoniae | 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 | | |

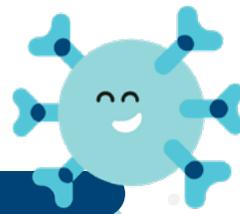
¹⁾ Modified Stainless Steel

BACTERICIDAL EFFICACY

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

¹⁾ 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 | | >4 log reduction |
| | | 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. <i>lactis</i> P001 DSM 4262 | EN13610 | Conc & RTU | 5 mins / 1% acidic whey / 0.5% / 20 °C | >4 log reduction |
| Lactococcus lactis subsp. <i>lactis</i> P008 DSM 10567 | EN13610 | RTU | 5 mins / 1% acidic whey / 0.5%, 20 °C | >4 log reduction |
| Lactococcus lactis subsp. <i>lactis</i> P008 DSM 10567 | EN13610 | Conc | 5 mins / 1% acidic whey / 1%, 20 °C | >4 log reduction |

YEASTICIDAL/FUNGICIDAL EFFICACY

| Test organisms | Test ref | Formula | Test conditions | Test result |
|---------------------------------|----------|---------------------------|--------------------------------|------------------|
| Aspergillus brasiliensis | 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 | |
| | | RTU | 10 mins / low soil / 20 °C | |
| | | RTU | 30 mins / high soil / 20 °C | |
| Candida albicans | 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 | |
| | | 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 ¹⁾ | |
| | Wipes | 1 min / low soil / 20 °C | | |
| | Conc 2% | 5 mins / low soil / 20 °C | | |
| Candida auris | 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 | |
| | | Conc 2% | 5 mins / low soil / 20 °C | |
| | | RTU | 2 mins / high soil / 20 °C | |

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.