

# Quick bites and hot topics

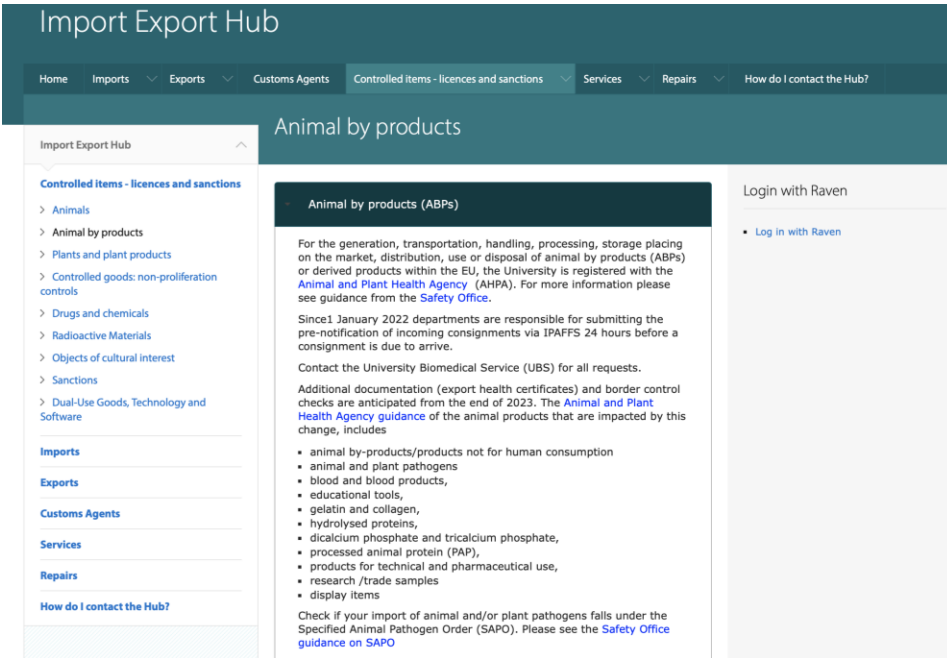
Mark Wills, Interim Head of Department of Medicine  
Chair University Biological safety Sub-committee

**May 7<sup>th</sup> 2024**



UNIVERSITY OF  
CAMBRIDGE





# Import/export of Animal By Products.

- New rules for commercial imports.
- Final implementation end of April.
- Importing typical low risk material for research purposes not affected, keep doing what you are doing.

## BUT

- Plan ahead if bringing back samples from abroad,
- clearly indicate on package contents for research, not for commercial use.

Import/Export team and Mark Elsdon can offer advice, do feed back any issues and also if it all worked smoothly.

<https://www.importexport.admin.cam.ac.uk/animal-products>

The screenshot shows a web browser window with the URL [training.cam.ac.uk](https://training.cam.ac.uk). The page header includes the University of Cambridge logo and a navigation bar with links: Home, Your bookings, Timetable, Courses (selected), Themes, and Venues. The main content area is titled "Shipping Biological Materials (IATA) Course". On the left, a sidebar indicates it is an "Instructor-led course" provided by "Health, Safety and Regulated Facilities". It states there is 1 scheduled run on "Thu 4 Jul 2024" from "09:00 - 15:00" with "[Places]" available. The main text describes the course as a one-day specialised CAA approved training course for shipping biological materials by air (IATA). It lists the following goods: Infectious Substances (Category A), Biological substances (Category B) (e.g. samples, vaccines, bloods, etc), Exempted goods – (e.g. cell lines, DNA), and Genetically Modified Organisms. It also mentions supplementary materials like dry-ice, dry-shippers, and preservative fluids. Successful candidates receive a training certificate valid for two years. The venue is BMS Lecture Theatre, Department of Chemistry, Lensfield Road, Cambridge CB2 1EW. The target audience is "University staff" and further details regarding OHSS eligibility criteria are available.

**Instructor-led course**  
Provided by: [Health, Safety and Regulated Facilities](#)

This course has 1 scheduled run. To book a place, please choose your preferred date:

**Thu 4 Jul 2024**  
09:00 - 15:00 [\[Places\]](#)

### Shipping Biological Materials (IATA) Course

#### Description

This is a one-day specialised CAA approved training course aimed at those departments shipping biological materials by air (IATA). It will use the 2020 IATA Regulations and will cover the full classification, packaging, labelling and documentation required to ship the following goods:

- Infectious Substances (Category A)
- Biological substances (Category B) (e.g. samples, vaccines, bloods, etc)
- Exempted goods – (e.g. cell lines, DNA)
- Genetically Modified Organisms

It will also cover the requirements for the supplementary materials encountered, such as dry-ice, dry-shippers and samples that are in small amounts of potentially flammable, or toxic, preservative fluids.

Successful candidates will receive a training certificate valid for two years, restricted only to the materials described above.

For completeness, transport by road and rail etc will also be covered.

**Venue:** BMS Lecture Theatre, Department of Chemistry, Lensfield Road, Cambridge CB2 1EW.

#### Target audience

- **University staff**
- Further details regarding OHSS' eligibility criteria are [available](#)

Book online  
<https://training.cam.ac.uk/cao/course/ohss-safety101>

## International Air Transport Association (IATA) training.

- Self-audit results indicated that not every dept that sends infectious material by air has an IATA trained person.
- Please make sure (refresher) training is done **every two years** and that succession planning as well as backup is in place.

Next course 1 day course  
4 July 2024.



## **Waste.** Sharpsmart waste audits.

These are free for Departments, done by Sharpsmart,

Paid for by the University.

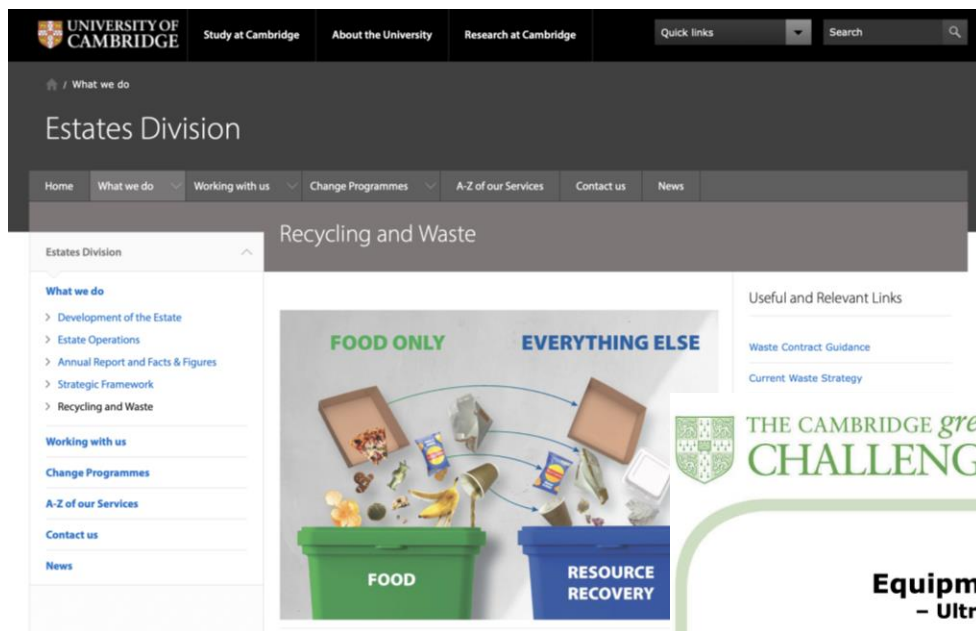
Helpful compliance check.

Make sure your Department responds to audit requests.

Sharpsmart are a preferred supplier but Novus can also be used.

These contracts are between Department and company, Claudia Conti from Finance helps with roll-out.

<https://www.sharpsmart.co.uk/auditsmart>



<https://www.em.admin.cam.ac.uk/what-we-do/recycling-and-waste>

**THE CAMBRIDGE green CHALLENGE**

### Equipment Replacement Programme – Ultra-Low Temperature (ULT) Freezers

**The Deal**

Financial support is available to help departments replace inefficient ultra-low temperature (-80°C) freezers over ten years old with new energy efficient models. Funding comes from the University's Carbon Reduction Fund.

Form of Support	Funding offered for ULT (-80°C) freezers (over 10 years old)
<b>Replacement</b> (1-for-1)	Upto 25%* of the cost of a new eligible energy efficient freezer (max £2,500 per unit).
<b>Reduction</b> (2-for-1)	Upto 100%* of the cost of 1 new eligible energy efficient freezer.

\* See Terms & Conditions

[https://www.environment.admin.cam.ac.uk/files/20210708\\_erp\\_freezer\\_guide\\_v9.0.pdf](https://www.environment.admin.cam.ac.uk/files/20210708_erp_freezer_guide_v9.0.pdf)

## Waste Electrical and Electronic Equipment (WEEE).

Interim budget for lab electrical waste until end of 2025/26 academic year.

Now includes all waste except large -80 freezers.

-80 exchanged as part of the Equipment Replacement Program, a subsidy scheme to replace old for more efficient new -80s; run by Sustainability.

Departments might have to budget for WEEE waste in future!



# 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 pyogenes, E.coli	1 %	5 mins
Bactericidal Legionella	1 %	10 mins
Yeasticidal incl. Candida albicans, 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 %	5 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
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 / 2 % / 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 mins / 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
	EN17387	5 mins / high soil / 2 % / 20 °C	>5 log reduction
Staphylococcus aureus	EN13727	5 mins / high soil / 1 % / 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 / 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	EN17387	10 mins / low soil / 5 % / 20 °C	>4 log reduction
	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 P005 DSM 4262	EN13610	5 mins / 1 % acidic whey / 0.5 % / 20 °C	>4 log reduction
Lactococcus lactis subsp. lactis P008 DSM 35567	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



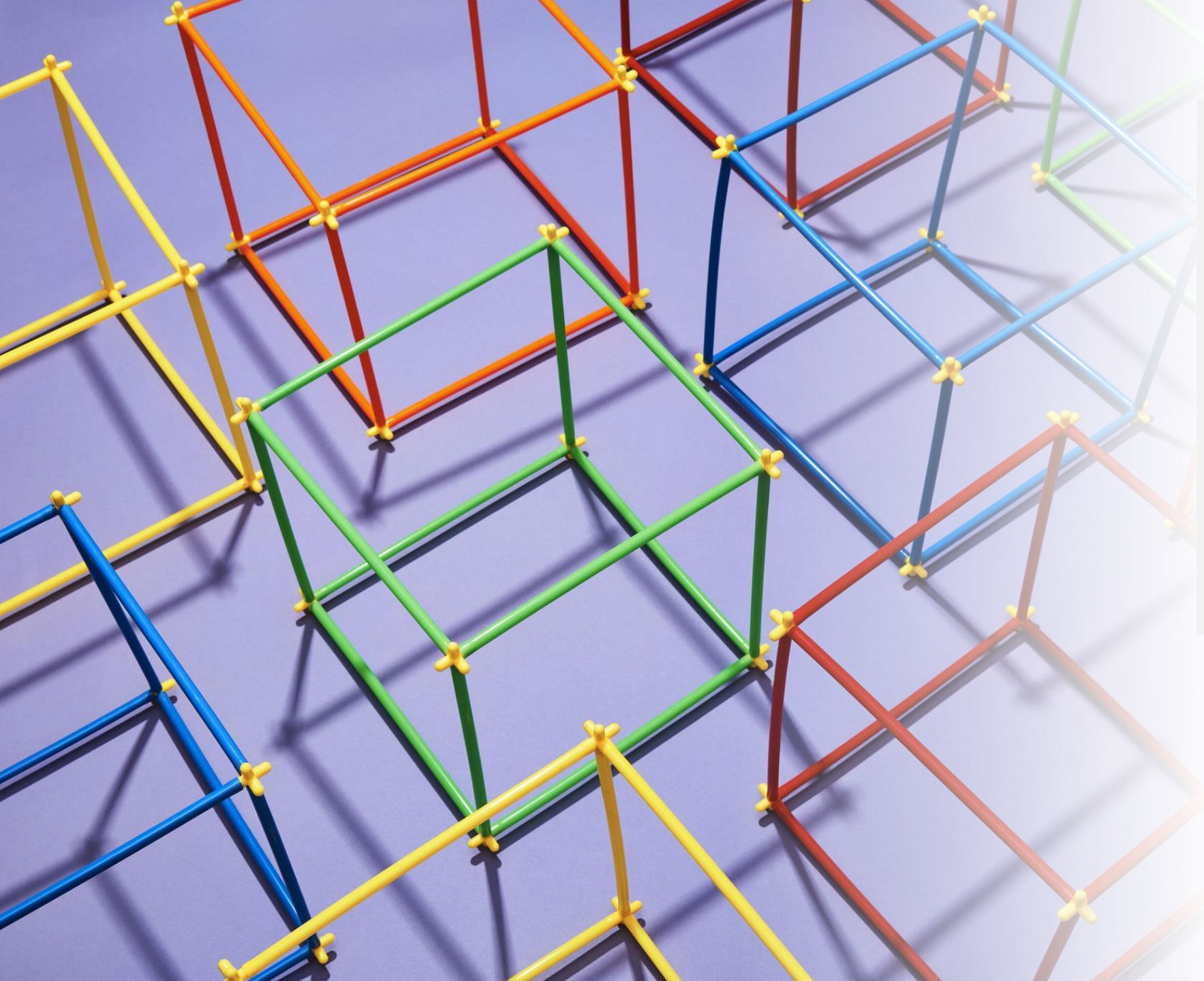
# Chemgene Disinfectant

After a review of the existing formulas and extensive testing, launch a new range of multi-surface disinfectants

Replace and combine the properties of Chemgene Laboratory (HLD4L) and Chemgene Medical (HLD4H).


If used as validated means of disinfection, check new formula works (data sheet) and possible re-validation!

<https://www.starlabgroup.com/Documents/std.lang.all/11335091.pdf>



## Contingency planning.

- Phones using IP lines rely on internet access.
- Might need to rethink contingency plan for situations where internet access is disrupted.
- Example of CL3 lab at CITIID following cyber incident. CITIID has particularly bad mobile phone connectivity
- Also highlights importance of data security and our reliance on IT systems. – Tscan, CCTV, Building Management Systems

 Health and Safety Executive

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**Publications**

HSE Books

## The Approved List of biological agents

**Date of publication:** 2023  
**ISBN:** N/A  
**Series code:** MISC208 (rev5)  
[Download a free copy \(PDF\)](#)

The Approved List of biological agents provides the classification of biological agents as referred to in the Control of Substances Hazardous to Health Regulations 2002 (COSHH). It is approved by the Advisory Committee on Dangerous Pathogens (ACDP) and is relevant to risk assessment for work with biological agents and the application of appropriate control measures.

The approved list is for use by people who deliberately work with biological agents, especially those in research, development, teaching or diagnostic laboratories and industrial processes, or those who work with humans or animals who are (or are suspected to be) infected with such an agent.

Over time, new biological agents emerge which are found to cause disease in humans and new treatments are developed. ACDP, in consultation with other experts, periodically reviews the list to consider any new evidence to support the addition of new agents or any changes to the classification of agents already listed.

This fifth edition of the Approved List of Biological Agents includes the following changes:

- the hazard group classification for existing agents has been reviewed and reclassified where appropriate
- previously unlisted biological agents have been classified and added to the list at Hazard Group 2 and Hazard Group 3
- advice on available vaccines has been updated

If you are working with biological agents, it is important that you review the updated Approved List for any changes to ensure that you continue to implement the appropriate control measures in accordance with the hazard group classification.

# Advisory Committee on Dangerous Pathogens approved list

Updated December 2023,


Most notable change Plasmodium knowlesi is now CL3

Many previously unlisted pathogens have been added.

If working with CL2 or novel pathogens, **check** whether the updates affect work at your department.

<https://www.hse.gov.uk/pubns/misc208.htm>





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## Biosafety and microbiological containment

### Guidance

Infections at work  
Preventing exposure to micro-organisms such as bacteria and viruses at work

Genetically modified organisms (GMOs)  
Working safely with GMOs in contained use facilities like research laboratories

Regulating specified animal pathogens  
Complying with the Special Animals Pathogen Order (SAPO) and applying for a licence

Blood-borne viruses  
How to reduce the risks of blood-borne viruses and manage incidents of exposure

Resources  
Publications and links covering laboratories, healthcare, sewage and legionella

**HSE** biosafety inspector Maria Taraktsoglou, planning a series of short visits to inspect CL3,

Schedule 5

higher risk GM work.

Initial planning meeting on Wednesday 8<sup>th</sup> May.

<https://www.hse.gov.uk/biosafety/>