



Biological Risk Assessment Form 5

Dept Reference Number: BRA

Form version: BRA5-2019

Part A: Basic Biological Assessment

You **must** complete this part of the form for all work with biological organisms. For some work, you may also need to complete Part B of this form.

Containment Level assigned for this project	Containment Level ? (CL?)
	(The containment level will be determined on a combination of the Hazard Group for the organisms and other risks and information provided by this form.)

Section 1:	Project title: ???Project title???
Brief outline of	
work/activity:	Description:
	???Description???

Section 2:	???Room number(s)???
Location(s):	

Section 3:	
Equipment/	
Consumables/	
Material:	

Section 4: HAZARD IDENTIFICATION

List the organisms (whether alive, dead or tissues/organs).

(For microorganisms and other similar materials, the ACDP hazard group classification of each; see <u>http://www.hse.gov.uk/pubns/misc208.pdf</u>)

Organism(s)	UK Hazard Group	Classification
??Name of organism?? (Provide information not only of the species/strain, but also the kingdom/phylum/class, as appropriate, to help identify the classification. Part B of this form must be completed if any of your organisms are Hazard Group 2 or higher.)	HG?	?e.g. Bacteria/ algae/ invertebrate/ amphibian?
Are any of the organisms endangered? Yes/No		

If 'yes', provide details and justification for their use.

The information required depends on the taxonomical classification of the organisms. Please	
complete all the relevant subsections below.	
4.1 Microorganisms	
(Complete this subsection if you are working with microorganisms)	

a) Are you aware of the microorganism(s) having a higher hazard classification in other jurisdictions? Yes/No

If any of your organisms are HG2, or they are HG1 in the UK but have a higher classification elsewhere, you MUST complete Part B of this form.

b) Are your microorganisms animal or plant pathogens? Yes/No

If 'yes', you must determine whether the organism is "prohibited" in the UK – see the Animal and Plant Health Agency (APHA) for a list of prohibited organisms. Where the organism is prohibited, even if only Hazard Group 1, the work will need to be undertaken at Containment Level 2 and so you must complete Part B of this form. It will also be necessary to obtain a licence from APHA.

c) Are there any adverse environmental effects associated with the organism(s)? Yes/No

If 'yes', give details

(Depending on the nature of the effect, it may be necessary to perform this work at Containment Level 2, in which case you will also need to complete Part B of this form.)

d) Do your microorganisms produce toxins? Yes/No

If 'yes', you must include details in the section on Significant Biological Hazards.

4.2 Animals

(Complete this subsection if you are working with animals)

a) Are the animals covered by APHA rules? Yes/No

If 'yes', you must complete Part B.

b) Are the animals parasitic, venomous or produce an allergic response in humans? Yes/No

If 'yes', you must include details in the section on Significant Biological Hazards.

c) Are there any ethical considerations? Yes/No

Justify answer and give details, as appropriate:

(Ethical approval may be required for work with some animals, especially vertebrates.)

4.3 Plants

(Complete this subsection if you are working with plants)

a) Are the plants poisonous? Yes/No

If 'yes', you must include details in the section on Significant Biological Hazards.

b) Do the plants produce seeds? Yes/No

If 'yes', you need to consider the implications of this.

c) Are the plants invasive? Yes/No

If 'yes', you need to consider their environmental impact.

Section 5:	1. ???
Significant	7 999
biological	2. 000
hazards	3. ???
Section 6:	1. ??
Other/non-	
biological	(Include here risks directly related to dealing with the organisms, for example,
hazards	risks associated with the use of disinfectant.)
Section 7:	1. Biological hazards
who might be	· · · · · · · · · · · · · · · · · · ·
exposed to the	2 Non biological hazarda
reference to	
above)	
	(Provide a list of the categories of personnel: "staff" is not sufficient.)
Section 8:	(Clicking on the boxes will add a check mark)
Existing control	Access control:
measures	□ Access restricted to laboratory users
	\Box Access only by a more restricted group (specify)
	Protocols:
	□ Good laboratory practice
	□ Disinfecting work area
	Containment:
	Containment Level 1 (CL1) Laboratory
	Containment Level 2 (CL2) Laboratory
	□ Microbiological Safety Cabinet (MSC); Class II
	(Note: The laminar flow hood is not a containment device!)

Personal Protective Equipment:

□ Lab coat (red colour for CL2 only)
□ Gloves (Type: Kimtech Purple Nitrile)
□ Gloves (Type:)
□ Facemask
Respirator (Type:)
Eye protection:
□ Glasses
\Box Face shield

Section 9:	1.
requirements	(Provide details and if appropriate list any additional control measures that
requirements	(Froviae defaits and, if appropriate, itsi any additional control measures that might be necessary.)

Section 10:	List any Local Rules and Standard Operating Procedures (SOP) that apply
Local rules	
	(Provide details and, if appropriate, list any additional control measures that
	might be necessary.)

Section 11:	1.
Additional	
control measures	(List any additional control measures that might be necessary. Where
	appropriate, this section may be left blank.)

Section 12:	(The level of detail required here should reflect the risks associated with the
Training,	work.)
instructions,	
responsibilities	

Section 13:	Solid waste.
Waste Disposal	1.
and	
Decontamination	Liquid waste.
	2.
	Decontamination and Cleaning of equipment.
	3.

Are risks adequately controlled?: \Box YES / NO \Box

•	Additional controls:	Action by:
		e e

If NO, list additional controls and actions required:				
Completed by:				
	Name	Signature	Date	
Supervisor:				
	Name	Signature	Date	
Biological Safety Officer:	Name	Signature	Date	
Dates of review:	Changes required? Yes/No	Reviewed by (name, sign, date)		





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Part B: Pathogenic Organisms and those requiring CL2

You need not complete this part of the form if your organisms are universally considered Hazard Group 1 (HG1), are not plant or animal pathogens, have no significant adverse environmental effects and only require Containment Level 1 (CL1)

Containment Level assigned for this project	Containment Level ? (CL?)
for this project	(The containment level will be determined on a combination of the Hazard Group for the organisms and other risks and information provided by this form.)

Project title	???Project title???
	(This should match the title used on Part A of this form.)

Section 14: Reason(s) why CL2 should be considered	 Hazard Group 2 (HG2) organism Organism that is HG1 in the UK, but is assigned higher group elsewhere Plant or animal pathogen on APHA's "prohibited" list Has a licence from APHA been applied for? Has APHA issued a licence for this work? Adverse environmental impact Other (please specify)
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Section 15: ADDITIONAL HAZARD IDENTIFICATION

Identify hazards:

a) List the micro-organisms, indicating for each the ACDP hazard group classification (see http://www.hse.gov.uk/pubns/misc208.pdf), APHA's classification and any environmental or other concerns, as appropriate:

Micro-organism(s)

??Name of organism?? ??Hazard Group?? ???APHA??? ???Environmental??? ???Other???

(If some of the organisms are HG1 with no other concerns, indicate these as HG1/CL1.)

b) For organisms that have a higher hazard classification in other jurisdictions, provide details of that classification and the country where that is given. If you believe use of CL1 is appropriate, explain why the other classification is not relevant to your work.

c) Is there evidence the organism(s) can cause infection? Yes/No			
If 'yes', give details:			
If 'yes', identify could occur i unprotected/	potential route(s) of f bacteria were to entrovente vulnerable skin (non-g	infection in the lal er the blood stream gloved hands, eczem	boratory: The most serious infection through a cut/sharps injury or through a on hand).
Percutaneous	Inhalation	Ingestion	Splash in eyes or mouth
d) Describe any transmission,	y disease that may be availability of vaccin	e caused: (including ne, etc.)	g symptoms, severity, routes of
\Box N/A (no k	nown disease/infectio	n)	
	nown disease/infectio)))	
e) Are there an	y adverse environm	ental effects? Yes	s/No
If 'yes', give	details relevant to d	etermining the con	tainment level required
f) Identify any	narticular groups of	f workers who may	the at increased risk · (for example
pregnant wor	rkers, young persons i	under 18, those with	pre-existing disease that increases
susceptibility	.)		
Anyone who might	have compromised r	esistance to diseas	e for any reason should seek advice
from the University	Occupational Healt	h Service regardin	g the need for additional
precautions.			
g) Could a less	hazardous organism	/substance (or form	n of the substance) be used instead?
Section 16:	ls monitoring require	ed for	

Yes/No

Heath?:

Is monitoring required?

(Provide details, if appropriate)

(Health,	Environment?	Yes/No	(Provide details, if appropriate)
environmental)			

Section 17:	Training:
Training.	1
instructions	
responsibilities	Instructions:
	Responsibilities:
	Permission to work:
	(Provide details of who and what Note that training records must always be
	(I Tovide details of who and what. Note that training records must always be signed to confirm the training has been received and understood. Permissions to
	work must also always be signed)
	work must also always be signed.)

Section 18:		
Emergency Procedures	Good Microbiological Laboratory Practice should be adhered to when dealing with any emergency situation: change gloves frequently throughout dealing with the incident to avoid spreading of the contamination further.	
	Disinfectants: 70% Ethanol is <u>NOT</u> suitable for dealing with spills or contaminations! Distel (suitable for metal and plastics) is preferable to Virkon. The latter is corrosive to metals upon exposure longer than 20 minutes. Virkon is not suitable for the decontamination of liquid waste destined for subsequent autoclaving due to the release of toxic gases.	
	Distel should be used instead whenever necessary.	
	Who should be contacted for emergency advice? (<i>List more than one point of contact, if appropriate. Note: the BSO should be informed of any emergencies that arise.</i>)	
	In case of spillage:	
	Contamination of personnel:	
	 Mouth, Eyes, Skin Exposure: Inhalation: Ingestion: If casualty unconscious: 	

Contamination of equipment:	
Other emergency:	
If appropriate, justify why this work can be carried out at CL1. (If using HG2 organisms, the work must be undertaken at CL2 and so this section should	

Are risks adequately controlled?: □ YES / NO □

	Additional controls:	Action by:
If NO, list		
additional		
controls		
and actions		
required:		

Completed by:			
	Name	Signature	Date

Supervisor:				
	Name	Signature	Date	

Biological Safety Officer:			
	Name	Signature	Date

Biological Safety Subcommittee				
Containment	This work is approved for containment level ??			
Level				
Comments				
Approved by				
Biological				
Safety				
Committee:	Name	Role	Signature	Date

Dates of review:	Changes required? Yes/No	Reviewed by (name, sign, date)