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SCHEDULE 8

Containment measures

Part II

Table 1a:

Containment measures for activities involving genetic modification of micro-organisms in laboratories

Containment Measures	Containment Leve	els				
	1	2	3	4		
1 Laboratory suite: isolation (Note 1)	not required	not required	required	required		
2 Laboratory: sealable for fumigation	not required	not required	required	required		
Equipment						
3 Surfaces impervious to water, resistant to acids, alkalis, solvents, disinfectants and decontamination agents and easy to clean	required for bench	required for bench	required for bench and floor	required for bench, floor ceiling and walls		
4 Entry to lab via airlock (Note 2)	not required	not required	required where and to extent the risk assessment shows it is required	required		
5 Negative pressure relative to the pressure	not required	required where and to extent the risk assessment	required	required		
NOTES 1. In the Table a laboratory fro 2. Entry must b	NOTES 1. In the Table above, "isolation" means, in relation to a laboratory, separation of the laboratory from other areas in the same building, or being in a separate building.					

Entry must be through an airlock which is a chamber isolated from the laboratory. The clean side of the airlock must be separated from the restricted side by changing or showering facilities and preferably by interlocking doors. Where viruses are not retained by the HEPA filters, extra requirements will be necessary 2.

3.

Where the autoclave is outside the laboratory in which the activity involving genetic modification of micro-organisms is being undertaken, but within the laboratory suite, there shall be validated procedures for the safe transfer of material into that autoclave, which provide a level of protection equivalent to that which would be achieved by having an autoclave in that laboratory. 4.

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Containment Measures	Containment Leve	els		
	1	2	3	4
of the immediate surroundings		shows it is required		
6 Extract and input air from the laboratory shall be HEPA filtered	not required	not required	HEPA filters required for extract air	HEPA filters required for input and extract air (Note 3)
7 Microbiologi safety cabinet/ enclosure	c n bt required	required where and to extent the risk assessment shows it is required	required, and all procedures with infective materials required to be contained within a cabinet/ enclosure	Class III cabinet required
8 Autoclave	required on site	required in the building	required in the laboratory suite (Note 4)	double ended autoclave required in laboratory
System of work				
9 Access restricted to authorised personnel only	not required	required	required	required (via airlock key procedure)
10 Specific measures to control aerosol dissemination	not required	required so as to minimise	required so as to prevent	required so as to prevent
11 Shower	not required	not required	required where and to extent the risk assessment shows it is required	required
12 Protective clothing	suitable protective clothing required	suitable protective clothing required	suitable protective clothing required; footwear required	complete change of clothing and footwear required

NOTES

1. 2.

In the Table above, "isolation" means, in relation to a laboratory, separation of the laboratory from other areas in the same building, or being in a separate building. Entry must be through an airlock which is a chamber isolated from the laboratory. The clean side of the airlock must be separated from the restricted side by changing or showering facilities and preferably by interlocking doors. Where viruses are not retained by the HEPA filters, extra requirements will be necessary for extra target.

Where the autoclave is outside the laboratory in which the activity involving genetic modification of micro-organisms is being undertaken, but within the laboratory suite, there shall be validated procedures for the safe transfer of material into that autoclave, which provide a level of protection equivalent to that which would be achieved by having an unterlayed in the laboratory. 4. autoclave in that laboratory.

^{3.} for extract air.

Containment Measures	Containment Levels				
	1	2	3	4	
			where and to extent the risk assessment shows it is required	before entry and exit	
13 Gloves	not required	required where and to extent the risk assessment shows they are required	required	required	
rodents and	required where and to extent the risk assessment shows it is required	required	required	required	
15 Specified disinfection procedures in place	required where and to extent the risk assessment shows they are required	required	required	required	
Waste					
16 Inactivation of GMMs in effluent from handwashing sinks and showers and similar effluents	not required	not required	required where and to extent the risk assessment shows it is required	required	
17 Inactivation of GMMs in contaminated material and waste	required by validated means	required by validated means	required by validated means	required by validated means	
Other measures					

In the Table above, "isolation" means, in relation to a laboratory, separation of the laboratory from other areas in the same building, or being in a separate building. Entry must be through an airlock which is a chamber isolated from the laboratory. The clean side of the airlock must be separated from the restricted side by changing or showering facilities and preferably by interlocking doors. Where viruses are not retained by the HEPA filters, extra requirements will be necessary for extra target. 1. 2.

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Containment Measures	Containment Leve	els			
	1	2	3	4	
18 Laboratory to contain its own equipment	not required	not required	required, so far as is reasonably practicable	required	
19 An observation window or alternative is to be present so that occupants can be seen		required where and to extent the risk assessment shows it is required	required	required	
20 Safe storage of GMMs	required where and to extent the risk assessment shows it is required	required	required	secure storage required	
21 Written records of staff training	not required	required where and to extent the risk assessment shows they are required	required	required	
 NOTES In the Table above, "isolation" means, in relation to a laboratory, separation of the laboratory from other areas in the same building, or being in a separate building. Entry must be through an airlock which is a chamber isolated from the laboratory. The clean side of the airlock must be separated from the restricted side by changing or showering facilities and preferably by interlocking doors. Where viruses are not retained by the HEPA filters, extra requirements will be necessary for extract air. Where the autoclave is outside the laboratory in which the activity involving genetic modification of micro-organisms is being undertaken, but within the laboratory suite, there shall be validated procedures for the safe transfer of material into that autoclave, which provide a level of protection equivalent to that which would be achieved by having an autoclave in that laboratory. 					
		Table 1b:			

Containment measures for activities involving genetic modification of micro-organisms in plant growth facilities (to be read with Table 1a as indicated in paragraph 3)

Containment Measures	Containi	Additional/ modification			
	1	2	3	4	-
Building					
					d a floor. Where the

1. A permanent structure refers to a fixed structure with walls, a roof and a floor. Where the permanent structure is a greenhouse, that structure shall also have a continuous waterproof covering and self-closing lockable outer doors, and be located on a site designed to prevent the entry of surface run-off water.

Containment Measures	Containment L	levels			Additional/ modification
	1	2	3	4	5
1 Permanent structure (Note 1)	t required where and to extent the risk assessment shows it is required	required	required	required	Modification
Equipment					
2 Entry via a separate room with two interlocking doors	not required	required where and to extent the risk assessment shows it is required	required where and to extent the risk assessment shows it is required	required (via airlock key procedure)	Additional
3 Control of contaminated run-off water	required where and to extent the risk assessment shows it is required	required so as to prevent run- off	required so as to prevent run- off	required so as to prevent run- off	Additional
System of worl	k				
4 Effective control of disease vectors such as insects, rodents and arthropods which could disseminate GMMs	required	required	required	required	Additional
oollen, seeds and other plant material	where and to extent the risk assessment	required so as to minimise dissemination	required so as to prevent dissemination	required so as to prevent dissemination	Additional
6 Procedure for transfer of living material between the plant growth		required so as to prevent dissemination	required so as to prevent dissemination	required so as to prevent dissemination	Additional
permanen covering a	t structure is a g	reenhouse, that s lockable outer do	tructure shall als	, a roof and a flo o have a continu- ted on a site desi	ous waterproo

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Containment Measures	Containn	Additional/ modification			
	1	2	3	4	
facilities, protective structure and laboratory shall control dissemination of GMMs					
permanen	t structure	is a greenhouse,	that structure sh	all also have a co	d a floor. Where the

covering and self-closing lockable outer doors, and be located on a site designed to prevent the entry of surface run-off water.

Table 1c:

Containment measures for activities involving genetic modification of microorganisms in animal units (to be read with Table 1a as indicated in paragraph 3)

Containment Measures	Containment L	evels			Additional/ modification	
	1	2	3	4	5	
Facilities						
1 Isolation of animal unit (Note 1)	required where and to extent the risk assessment shows it is required	required	required	required	Modification	
separatedwhere	required to extent the risk assessment shows they are required	required	required	required	Additional	
facilities	shows they are	risk assesment	required	required	Additional	
NOTES	NOTES					

In the Table above, "animal unit" means a building, of separate area within a building, containing an animal facility and other areas including changing rooms, showers, autoclaves and food storage areas. In the Table above and in Note 1 above, "animal facility" means a facility normally used to house stock, breeding or experimental animals or one which is used for the performance of minor surgical procedures on animals. In the Table above, "isolators" means transparent boxes where small animals are contained within or outside a cage; for large animals, isolated rooms may be more appropriate. 2.

3.

Containment Measures	Containment L	evels			Additional/ modification
meusures	1	2	3	4	moujication
and easily washable material)					
4 Floor, walls and ceiling easily washable	required where and to extent the risk assessment shows they are required	required for floor	required for floor and walls	required for floor, walls and ceiling	Modification
5 Appropria filters on isolators or isolated rooms (Note 3)	t e ot required	required where and to extent the risk assessment shows they are required	required	required	Additional
	rrequired to be accessible	required to be accessible	required to be accessible	required to be on site	Additional
7 Appropria barriers at the room exit, and at drains or ventilation duct work	tæquired	required	required	required	Additional
appropriate containment facilities, such	required where and to extent the risk assessment shows it is required	required where and to extent the risk assessment shows it is required	required where and to extent the risk assessment shows it is required	required where and to extent the risk assessment shows it is required	Additional

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1.

In the Table above, "animal unit" means a building, or separate area within a building, containing an animal facility and other areas including changing rooms, showers, autoclaves and food storage areas. In the Table above and in Note 1 above, "animal facility" means a facility normally used to house stock, breeding or experimental animals or one which is used for the performance of minor surgical procedures on animals. In the Table above, "isolators" means transparent boxes where small animals are contained within or outside a cage; for large animals, isolated rooms may be more appropriate. 2.

3.

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Table 2:

Containment measures for activities involving genetic modification of microorganisms in premises other than those referred to in Tables 1a, 1b and 1c

Containment Measures	Containment Leve	els		
	1	2	3	4
General				
1 Viable micro-organisms shall be contained in a system which separates the process from the workplace and wider environment (closed system)	shows it is	required	required	required
2 Closed systems located within a controlled area	not required	required where and to extent the risk assessment shows they are required	required	required and required to be purpose built
3 Control of exhaust gases from the closed system	not required	required so as to minimise release	required so as to prevent release	required so as to prevent release
aerosols during sample collection, addition of	shows it is required	required so as to minimise release	required so as to prevent release	required so as to prevent release
of bulk culture	risk assessment	required by validated means	required by validated means	required by validated means
6 Seals shall be designed so as to minimise or prevent release	not required	required so as to minimise release	required so as to prevent release	required so as to prevent release
7 The controlled area	required where and to extent the	required where and to extent the	required required	required

Containment Measures	Containment Leve	els		
	1	2	3	4
designed to contain spillage of the entire contents of the closed system	risk assessment shows it is	risk assessment shows it is required		
8 The controlled area sealable to permit fumigation	not required	required where and to extent the risk assessment shows it is required	required where and to extent the risk assessment shows it is required	required
signs posted	required where and to extent the risk assessment shows it is required	required	required	required
Equipment				
10 Entry via airlock	not required	not required	required where and to extent the risk assessment shows it is required	required
11 Surfaces resistant to water, acids, alkalis, solvents, disinfectants and decontamination agents and easy to clean	required for any bench	required for any bench	required for floor and any bench	required for bench, floor, ceiling and walls
measures to adequately	required where and to extent the risk assessment shows they are required	required where and to extent the risk assessment shows they are required	required where and to extent the risk assessment shows they are required	required
13 The controlled area maintained at an air pressure negative to the immediate surroundings	not required	not required	required where and to extent the risk assessment shows it is required	required
14 Extract and input air from the controlled area	not required	not required	required for extract air,	required for inpu and extract air

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Containment Measures	Containment Leve	els		
	1	2	3	4
shall be HEPA filtered			optional for input air	
System of work				
15 Access restricted to authorised personnel only	not required	required	required	required
16 Decontamin and washing facilities provided for personnel	ationuired	required	required	required
17 Personnel shall shower before leaving the controlled area	not required	not required	required where and to extent the risk assessment shows it is required	required
18 Personnel shall wear protective clothing	work clothing required	work clothing required	required	complete change required before exit and entry
19 Written procedures and records of staff training	not required	not required	required	required
Waste				
20 Inactivation of GMMs in effluent from handwashing sinks and showers or similar effluents	not required	not required	required where and to extent the risk assessment shows it is required	required
21 Inactivation of GMMs in contaminated material and waste including those in process effluent before final discharge	required by validated means	required by validated means	required by validated means	required by validated means