

Checklist for Inspections
(contained use – Glasshouses and Growth-rooms)

biosafety level 1 - 3

Specification		Containment level		
		1	2	3
1	<i>greenhouse: permanent structure*</i>	no	yes	yes
2	<i>entry via a separated room with two interlocking doors*</i>	no	optional	yes
3	<i>control of contaminated run-off water*</i>	optional	minimise run-off	prevent run-off
4	<i>measures to control undesired species such as insects, rodents, arthropods*</i>	yes	yes	yes
5	<i>procedures for transfer of living material between the glasshouse/growth-room, protective structure and laboratory shall control dissemination of genetically modified micro-organisms*</i>	minimise dissemination	minimise dissemination	prevent dissemination
6	the ground of the greenhouse can be of gravel or other greenhouse-typical material. At least the pavement should be solid, e.g. of concrete.	yes	yes	yes
7	the ground of the greenhouse should be of water impermeable material. Gravel and other porous material under the planting tables is suitable if there is only a minor possibility that reproducible biological material can be transmitted through the soil. In this case earth beds are also possible.	no	yes	-
8	if part of the ground consists of gravel there must be suitable treatments available for the organisms trapped in the gravel	no	yes	yes
9	the ground of the greenhouse is made of water impermeable material with provisions to collect and sterilise waste water.	no	no	yes
10	before disposal genetically modified plants have to be made unable to reproduce, e.g. by cutting off blossoms	yes	-	-
11	there must be a suitable program been worked out to control plant pests, weeds, insects and rodents	yes	yes	yes
12	escape of GMO's	minimised	prevent	prevent
13	injuries have to be reported immediately to the project leader	yes	yes	yes
14	acceptability of windows that open	yes	yes with insect nets	no
15	breakproof windows	no	no	yes
16	transport of GMO's in suitable containers	no	yes	yes
17	biohazard sign at entry	no	yes	yes
18	access is limited to the project leader and personnel authorised by him	no	yes	yes

19	equipment which was in contact with GMO's has to be sterilised before cleaning, if the contact may lead to the transmission of GMO's	no	yes	yes
20	hand disinfection apparatus	no	yes	yes
21	protective clothings have to be sterilised before laundry	no	no	yes
22	Gloves	no	no	yes
23	greenhouse to be entered via a lock with self-closing doors and hand disinfection apparatus and touch-free hand washing basin.	no	no	yes
24	the glasshouse has to be surrounded by a fence or equal protection system	no	no	yes
25	all surfaces have to be resistend to cleaning- and disinfection-fluids. Breakthroughs of cables and pipes have to be sealed against the construction	no	no	yes
26	the glasshouse has to be held under negative pressure compared to the surrounding	no	no	yes
27	if there is the danger of the dissemination of airborne pathogens, extract air has to be filtered through HEPA-filters	no	no	yes
28	autoclave inside the glasshouse	no	no	yes

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¹ * from the annexes of Directive 98/81/EC