

Part 2 Host/vector systems for exempt dealings

Item	Class	Host	Vector
1	Bacteria	<p><i>Escherichia coli</i> K12, <i>E. coli</i> B, <i>E. coli</i> C or <i>E. coli</i> Nissle 1917 — any derivative that does not contain:</p> <p>(a) generalised transducing phages; or</p> <p>(b) genes able to complement the conjugation defect in a non-conjugative plasmid</p> <p><i>Bacillus</i> — specified species — asporogenic strains with a reversion frequency of less than 10^{-7}:</p> <p>(a) <i>B. amyloliquefaciens</i></p> <p>(b) <i>B. licheniformis</i></p> <p>(c) <i>B. pumilus</i></p> <p>(d) <i>B. subtilis</i></p> <p>(e) <i>B. thuringiensis</i></p> <p><i>Pseudomonas putida</i> — strain KT 2440</p>	<p>1. Non-conjugative plasmids</p> <p>2. Bacteriophage</p> <p>(a) lambda</p> <p>(b) lambdoid</p> <p>(c) Fd or F1 (eg M13)</p> <p>3. None (non-vector systems)</p> <p>1. Non-conjugative plasmids</p> <p>2. Plasmids and phages whose host range does not include <i>B. cereus</i>, <i>B. anthracis</i> or any other pathogenic strain of <i>Bacillus</i></p> <p>3. None (non-vector systems)</p> <p>1. Non-conjugative plasmids including certified plasmids: pKT 262, pKT 263, pKT 264</p> <p>2. None (non-vector systems)</p>

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		<i>Streptomyces</i> — specified species:	1. Non-conjugative plasmids
		(a) <i>S. aureofaciens</i>	2. Certified plasmids: SCP2, SLP1, SLP2, PIJ101 and derivatives
		(b) <i>S. coelicolor</i>	
		(c) <i>S. cyaneus</i>	3. Actinophage phi C31 and derivatives
		(d) <i>S. griseus</i>	
		(e) <i>S. lividans</i>	4. None (non-vector systems)
		(f) <i>S. parvulus</i>	
		(g) <i>S. rimosus</i>	
		(h) <i>S. venezuelae</i>	
		<i>Agrobacterium radiobacter</i>	1. Non-tumorigenic disarmed Ti plasmid vectors, or Ri plasmid vectors
		<i>Agrobacterium rhizogenes</i> — disarmed strains	
		<i>Agrobacterium tumefaciens</i> — disarmed strains	2. None (non-vector systems)
		<i>Lactobacillus</i>	1. Non-conjugative plasmids
		<i>Lactococcus lactis</i>	2. None (non-vector systems)
		<i>Oenococcus oeni</i> syn.	
		<i>Leuconostoc oeni</i>	
		<i>Pediococcus</i>	
		<i>Photobacterium angustum</i>	
		<i>Pseudoalteromonas tunicata</i>	
		<i>Rhizobium</i> (including the genus <i>Allorhizobium</i>)	
		<i>Sphingopyxis alaskensis</i> syn.	
		<i>Sphingomonas alaskensis</i>	
		<i>Streptococcus thermophilus</i>	
		<i>Synechococcus</i> — specified strains:	
		(a) PCC 7002	
		(b) PCC 7942	
		(c) WH 8102	
		<i>Synechocystis</i> species — strain PCC 6803	
		<i>Vibrio cholerae</i> CVD103-HgR	

Item	Class	Host	Vector
2	Fungi	<i>Kluyveromyces lactis</i> <i>Neurospora crassa</i> — laboratory strains <i>Pichia pastoris</i> <i>Saccharomyces cerevisiae</i> <i>Schizosaccharomyces pombe</i> <i>Trichoderma reesei</i> <i>Yarrowia lipolytica</i>	1. All vectors 2. None (non-vector systems)
3	Slime moulds	<i>Dictyostelium</i> species	1. <i>Dictyostelium</i> shuttle vectors, including those based on the endogenous plasmids Ddp1 and Ddp2 2. None (non-vector systems)
4	Tissue culture	Any of the following if they cannot spontaneously generate a whole animal: (a) animal or human cell cultures (including packaging cell lines); (b) isolated cells, isolated tissues or isolated organs, whether animal or human; (c) early non-human mammalian embryos cultured <i>in vitro</i> Either of the following if they are not intended, and are not likely without human intervention, to vegetatively propagate, flower or regenerate into a whole plant: (a) plant cell cultures; (b) isolated plant tissues or organs	1. Non-conjugative plasmids 2. Non-viral vectors, or replication defective viral vectors unable to transduce human cells 3. Baculovirus (<i>Autographa californica</i> nuclear polyhedrosis virus), polyhedrin minus 4. None (non-vector systems) 1. Non-tumorigenic disarmed Ti plasmid vectors, or Ri plasmid vectors, in <i>Agrobacterium tumefaciens</i> , <i>Agrobacterium radiobacter</i> or <i>Agrobacterium rhizogenes</i> 2. Non-pathogenic viral vectors 3. None (non-vector systems)