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**COMMISSION DIRECTIVE 93/49/EEC**

**of 23 June 1993**

**setting out the schedule indicating the conditions to be met by ornamental plant propagating material and ornamental plants pursuant to Council Directive 91/682/EEC**

(OJ L 250, 7.10.1993, p. 9)

Amended by:

		Official Journal		
		No	page	date
► <b><u>M1</u></b>	Commission Directive 1999/67/EC of 28 June 1999	L 164	78	30.6.1999
► <b><u>M2</u></b>	Commission Implementing Directive (EU) 2018/484 of 21 March 2018	L 81	10	23.3.2018

**▼B****COMMISSION DIRECTIVE 93/49/EEC****of 23 June 1993****setting out the schedule indicating the conditions to be met by  
ornamental plant propagating material and ornamental plants  
pursuant to Council Directive 91/682/EEC****▼M1****▼B***Article 3*

1. Without prejudice to the provisions of Article 2, the material must, at least on visual inspection, be substantially free from any harmful organisms and diseases impairing quality, or any signs or symptoms thereof, which reduce the usefulness of the propagating material or ornamental plants and in particular be free from those organisms and diseases listed in the Annex hereto in respect of the genus or species concerned.

**▼M1****▼M2***Article 3a*

Propagating material of *Palmae* belonging to the genera and species referred to in the Annex and having a diameter of the stem at the base of over 5 cm shall comply with one of the following requirements:

- (a) it shall have been grown for their entire life in an area which has been established as free from *Rhynchophorus ferrugineus* (Olivier) by the responsible official body in accordance with relevant International Standards for Phytosanitary Measures;
- (b) it shall have been grown in the two years prior to their marketing in a site within the Union with complete physical protection against the introduction of *Rhynchophorus ferrugineus* (Olivier), or in a site within the Union where the appropriate preventive treatments have been applied with respect to that harmful organism. It shall be subject to visual inspections carried out at least once every four months, confirming freedom of that material from *Rhynchophorus ferrugineus* (Olivier).

This Article shall apply without prejudice to the rules on protected zones adopted pursuant to point (h) of Article 2(1) and Article 5(3) of Directive 2000/29/EC.

**▼B***Article 4*

1. The material shall have adequate identity and purity relative to the genus or species in question, or where appropriate, group of plants, and, where marketed or intended to be marketed with a reference to the variety pursuant to Article 9 (1) of Directive 91/682/EEC, shall also have identity and purity as to variety.

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*Article 7*

This Directive is without prejudice to the provisions laid down in Council Regulation (EEC) No 315/68 <sup>(1)</sup>.

*Article 8*

1. Member States shall bring into force the laws, regulations or administrative provisions necessary to comply with this Directive not later than 31 December 1993. They shall forthwith inform the Commission thereof.

When Member States adopt these provisions, these shall contain a reference to this Directive or shall be accompanied by such reference at the time of their official publication. The procedure for such reference shall be adopted by Member States.

2. Member States shall communicate to the Commission the text of the main provisions of domestic law which they adopt in the field covered by this Directive.

*Article 9*

This Directive is addressed to the Member States.

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<sup>(1)</sup> OJ No L 71, 21. 3. 1968, p. 1.

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## ANNEX

## LIST OF SPECIFIC HARMFUL ORGANISMS AND DISEASES OF QUALITY AFFECTING SIGNIFICANCE

Genus or species	Specific harmful organisms and diseases
<p>— <i>Begonia x hiemalis</i> Fotsch</p>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> <li>— <i>Aphelenchoides</i> spp.</li> <li>— <i>Ditylenchus destructor</i></li> <li>— <i>Meloidogyne</i> spp.</li> <li>— <i>Myzus ornatus</i></li> <li>— <i>Otiorrhynchus sulcatus</i></li> <li>— <i>Sciara</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Erwinia chrysanthemi</i></li> <li>— <i>Rhodococcus fascians</i></li> <li>— <i>Xanthomonas campestris</i> pv. <i>begoniae</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— Powdery mildew</li> <li>— Stem rot pathogens (<i>Phytophthora</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp.)</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Leafcurl disease</li> <li>— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)</li> </ul>
<p>— <i>Citrus</i></p>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Aleurothrixus floccosus</i> (Mashell)</li> <li>— <i>Meloidogyne</i> spp.</li> <li>— <i>Parabemisia myricae</i> (Kuwana)</li> <li>— <i>Tylenchulus semipenetrans</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Phytophthora</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Viroids such as exocortis, cachexia-xyloporosis</li> <li>— Diseases that induce psorosis - like young leaves symptoms such as: psorosis, ring spot, cristacortis, impietratura, concave gum</li> </ul> <ul style="list-style-type: none"> <li>— Infectious variegation</li> <li>— Citrus leaf rugose</li> </ul>
<p>— <i>Dendranthema x Grandiflorum</i> (Ramat) Kitam</p>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Agromyzidae</li> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> <li>— <i>Aphelenchoides</i> spp.</li> <li>— <i>Diarthronomia chrysanthemi</i></li> <li>— Lepidoptera, in particular <i>Cacoecimorpha pronubana</i>, <i>Epichoristodes Acerbella</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul>

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Genus or species	Specific harmful organisms and diseases
— <i>Dianthus Caryophyllus</i> L. and hybrids	<p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Agrobacterium tumefaciens</i></li> <li>— <i>Erwinia chrysanthemi</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Fusarium oxisporum</i> spp. <i>chrysanthemi</i></li> <li>— <i>Puccinia chrysanthemi</i></li> <li>— <i>Pythium</i> spp.</li> <li>— <i>Rhizoctonia solani</i></li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Chrysanthemum B mosaic virus</li> <li>— Tomato aspermy cucumovirus</li> </ul> <p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Agromyzidae</li> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> <li>— Lepidoptera, in particular <i>Cacoecimorpha pronubana</i>, <i>Epichoristodes acerbella</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Alternaria dianthi</i></li> <li>— <i>Alternaria dianthicola</i></li> <li>— <i>Fusarium oxisporum</i> f. spp. <i>dianthi</i></li> <li>— <i>Mycosphaerella dianthi</i></li> <li>— <i>Phytophthora nicotiana</i> spp. <i>parasitica</i></li> <li>— <i>Rhizoctonia solani</i></li> <li>— Stem rot: <i>Fusarium</i> spp. and <i>Pythium</i> spp.</li> <li>— <i>Uromyces dianthi</i></li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Carnation etched ring caulimovirus</li> <li>— Carnation mottle carmovirus</li> <li>— Carnation necrotic fleck closterovirus</li> <li>— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)</li> </ul>
— <i>Euphorbia pulcherrima</i> (Wild ex Kletzch)	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Erwinia chrysanthemi</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Fusarium</i> spp.</li> <li>— <i>Pythium ultimum</i></li> <li>— <i>Phytophthora</i> spp.</li> <li>— <i>Rhizoctonia solani</i></li> <li>— <i>Thielaviopsis basicola</i></li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)</li> </ul>

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Genus or species	Specific harmful organisms and diseases
— <i>Gerbera</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Agromyzidae</li> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> <li>— <i>Aphelenchoides</i> spp.</li> <li>— <i>Lepidoptera</i></li> <li>— <i>Meloidogyne</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Fusarium</i> spp.</li> <li>— <i>Phytophthora cryptogea</i></li> <li>— Powdery mildew</li> <li>— <i>Rhizoctonia solani</i></li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <p>Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)</p>
— <i>Gladiolus</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Ditylenchus dipsaci</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Pseudomonas marginata</i></li> <li>— <i>Rhodococcus fascians</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Botrytis gladiolorum</i></li> <li>— <i>Curvularia trifolii</i></li> <li>— <i>Fusarium oxysporum</i> spp. <i>gladioli</i></li> <li>— <i>Penicillium gladioli</i></li> <li>— <i>Sclerotinia</i> spp.</li> <li>— <i>Septoria gladioli</i></li> <li>— <i>Urocystis gladiolicola</i></li> <li>— <i>Uromyces transversalis</i></li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Aster yellow mycoplasma</li> <li>— Corky pit agent</li> <li>— Cucumber mosaic virus</li> <li>— Gladiolus ringspot virus (syn. Narcissus latent virus)</li> <li>— Tobacco rattle virus</li> </ul> <p><b>Other harmful organisms:</b></p> <ul style="list-style-type: none"> <li>— <i>Cyperus esculentus</i></li> </ul>
— <i>Lilium</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Aphelenchoides</i> spp.</li> <li>— <i>Rhizoglyphus</i> spp.</li> <li>— <i>Pratylenchus penetrans</i></li> <li>— <i>Rotylenchus robustus</i></li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul>

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Genus or species	Specific harmful organisms and diseases
— <i>Malus</i> Miller	<p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Erwinia carotovora</i> subsp. <i>carotovora</i></li> <li>— <i>Rhodococcus fascians</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Cylindrocarpon destructans</i></li> <li>— <i>Fusarium oxysporum</i> f. sp. <i>lilii</i></li> <li>— <i>Pythium</i> spp.</li> <li>— <i>Rhizoctonia</i> spp.</li> <li>— <i>Rhizopus</i> spp.</li> <li>— <i>Sclerotium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Cucumber mosaic virus</li> <li>— Lily symptomless virus</li> <li>— Lily virus x</li> <li>— Tobacco rattle virus</li> <li>— Tulip breaking virus</li> </ul> <p><b>Other harmful organisms</b></p> <ul style="list-style-type: none"> <li>— <i>Cyperus esculentus</i></li> </ul> <p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Anarsia lineatella</i></li> <li>— <i>Eriosoma lanigerum</i></li> <li>— Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Agrobacterium tumefaciens</i></li> <li>— <i>Pseudomonas syringae</i> pv. <i>syringae</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Armillariella mellea</i></li> <li>— <i>Chondrostereum purpureum</i></li> <li>— <i>Nectria galligena</i></li> <li>— <i>Phytophthora cactorum</i></li> <li>— <i>Rosellinia necatrix</i></li> <li>— <i>Venturia</i> spp.</li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms</b></p> <p>All</p>
— <i>Narcissus</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Aphelenchoides subtenuis</i></li> <li>— <i>Ditylenchus destructor</i></li> <li>— <i>Eumerus</i> spp.</li> <li>— <i>Merodon equestris</i></li> <li>— <i>Pratylenchus penetrans</i></li> <li>— Rhizoglyphidae</li> <li>— Tarsonemidae</li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Fusarium oxysporum</i> f. sp. <i>narcissi</i></li> <li>— <i>Sclerotinia</i> spp.</li> <li>— <i>Sclerotium bulborum</i></li> </ul>

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Genus or species	Specific harmful organisms and diseases
	<p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Tobacco rattle virus</li> <li>— Narcissus white streak agent</li> <li>— Narcissus yellow stripe virus</li> </ul> <p><b>Other harmful organisms</b></p> <ul style="list-style-type: none"> <li>— <i>Cyperus esculentus</i></li> </ul>

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<p>— <i>Palmae</i>, as regards the following genera and species</p> <ul style="list-style-type: none"> <li>— <i>Areca catechu</i> L.</li> <li>— <i>Syagrus romanzoffiana</i> (Cham.) Glassman</li> <li>— <i>Arenga pinnata</i> (Wurmb) Merr.</li> <li>— <i>Bismarckia</i> Hildebr. &amp; H.Wendl.</li> <li>— <i>Borassus flabellifer</i> L.</li> <li>— <i>Brahea armata</i> S. Watson</li> <li>— <i>Brahea edulis</i> H.Wendl.</li> <li>— <i>Butia capitata</i> (Mart.) Becc.</li> <li>— <i>Calamus merrillii</i> Becc.</li> <li>— <i>Caryota maxima</i> Blume</li> <li>— <i>Caryota cumingii</i> Lodd. ex Mart.</li> <li>— <i>Chamaerops humilis</i> L.</li> <li>— <i>Cocos nucifera</i> L.</li> <li>— <i>Corypha utan</i> Lam.</li> <li>— <i>Copernicia</i> Mart.</li> <li>— <i>Elaeis guineensis</i> Jacq.</li> <li>— <i>Howea forsteriana</i> Becc.</li> <li>— <i>Jubaea chilensis</i> (Molina) Baill.</li> <li>— <i>Livistona australis</i> C. Martius</li> <li>— <i>Livistona decora</i> (W. Bull) Dowe</li> <li>— <i>Livistona rotundifolia</i> (Lam.) Mart.</li> <li>— <i>Metroxylon sagu</i> Rottb.</li> <li>— <i>Roystonea regia</i> (Kunth) O.F. Cook</li> <li>— <i>Phoenix canariensis</i> Chabaud</li> <li>— <i>Phoenix dactylifera</i> L.</li> <li>— <i>Phoenix reclinata</i> Jacq.</li> <li>— <i>Phoenix roebelenii</i> O'Brien</li> <li>— <i>Phoenix sylvestris</i> (L.) Roxb.</li> <li>— <i>Phoenix theophrasti</i> Greuter</li> <li>— <i>Pritchardia</i> Seem. &amp; H.Wendl.</li> <li>— <i>Ravenea rivularis</i> Jum. &amp; H.Perrier</li> <li>— <i>Sabal palmetto</i> (Walter) Lodd. ex Schult. &amp; Schult.f.</li> <li>— <i>Trachycarpus fortunei</i> (Hook.) H. Wendl.</li> <li>— <i>Washingtonia</i> H. Wendl.</li> </ul>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Rhynchophorus ferrugineus</i> (Olivier)</li> </ul>
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<ul style="list-style-type: none"> <li>— <i>Pelargonium</i> L.</li> </ul>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Aleurodidae, in particular <i>Bemisia tabaci</i></li> <li>— Lepidoptera</li> <li>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Rhodococcus fascians</i></li> <li>— <i>Xanthomonas campestris</i> pv. <i>pelargonii</i></li> </ul>
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Genus or species	Specific harmful organisms and diseases
— Phoenix	<p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Puccinia pelargonii zonalis</i></li> <li>— Stem rot pathogens (<i>Botrytis</i> spp., <i>Pythium</i> spp.)</li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Pelargonium flower break carmovirus</li> <li>— Pelargonium leaf curl tobusvirus</li> <li>— Pelargonium line pattern virus</li> <li>— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)</li> </ul> <p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Thysanoptera</li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Exosporium palmivorum</i></li> <li>— <i>Gliocladium wermoeseni</i></li> <li>— <i>Graphiola phoenicis</i></li> <li>— <i>Pestalozzia Phoenicis</i></li> <li>— <i>Pythium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms</b></p> <p>All</p>
— <i>Pinus nigra</i>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Blastophaga</i> spp.</li> <li>— <i>Rhyacionia buoliana</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Ophodermium seditiosum</i></li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <p>All</p>
<i>Prunus</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Capnodis tenebrionis</i></li> <li>— <i>Meloidogyne</i> spp.</li> <li>— Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Agrobacterium tumefaciens</i></li> <li>— <i>Pseudomonas syringae</i> pv. <i>mors prunorum</i></li> <li>— <i>Pseudomonas syringae</i> pv. <i>syringae</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Armillariella mellea</i></li> <li>— <i>Chondrostereum purpureum</i></li> <li>— <i>Nectria galligena</i></li> <li>— <i>Rosellinia necatrix</i></li> <li>— <i>Taphrina deformans</i></li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Prune dwarf virus</li> <li>— <i>Prunus necrotic ringspot virus</i></li> </ul>

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Genus or species	Specific harmful organisms and diseases
— <i>Pyrus</i> L.	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— <i>Anarsia lineatella</i></li> <li>— <i>Eriosoma lanigerum</i></li> <li>— Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Agrobacterium tumefaciens</i></li> <li>— <i>Pseudomonas syringae</i> pv. <i>syringae</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Armillariella mellea</i></li> <li>— <i>Chondrostereum purpureum</i></li> <li>— <i>Nectria galligena</i></li> <li>— <i>Phytophthora</i> spp.</li> <li>— <i>Rosellinia necatrix</i></li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms</b></p> <p>All</p>
— <i>Rosa</i>	<p><b>Insects, mites and nematodes at all stages of their development</b></p> <ul style="list-style-type: none"> <li>— Lepidoptera, in particular <i>Epichoristodes acerbella</i>, <i>Cacoecimorpha pronubana</i></li> <li>— <i>Meloidogyne</i> spp.</li> <li>— <i>Pratylenchus</i> spp.</li> <li>— <i>Tetranychus urticae</i></li> </ul> <p><b>Bacteria</b></p> <ul style="list-style-type: none"> <li>— <i>Agrobacterium tumefaciens</i></li> </ul> <p><b>Fungi</b></p> <ul style="list-style-type: none"> <li>— <i>Chondrostereum purpureum</i></li> <li>— <i>Coniothyrium</i> spp.</li> <li>— <i>Diplocarpon rosae</i></li> <li>— <i>Peronospora sparsa</i></li> <li>— <i>Phragmidium</i> spp.</li> <li>— <i>Rosellinia necatrix</i></li> <li>— <i>Sphaeroteca pannosa</i></li> <li>— <i>Verticillium</i> spp.</li> </ul> <p><b>Viruses and virus-like organisms, and in particular</b></p> <ul style="list-style-type: none"> <li>— Apple mosaic virus</li> <li>— Arabis mosaic nepovirus</li> <li>— Prunus necrotic ringspot virus</li> </ul>