Import Health Standard
Commodity Sub-class: Fresh Fruit/Vegetables
Zucchini, *Cucurbita pepo*
from Australia

**ISSUED**

Issued pursuant to Section 22 of the Biosecurity Act 1993
Date Issued: 9 June 2000

AMENDMENT RECORD

Amendments to this standard will be given a consecutive number and will be dated.

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1 NEW ZEALAND NATIONAL PLANT PROTECTION ORGANISATION

The New Zealand national plant protection organisation is the Ministry for Primary Industries and as such, all communication should be addressed to:

Chief Technical Officer
Ministry for Primary Industries
PO Box 2526
Wellington
NEW ZEALAND

Fax: 64-4-894 0662
E-mail: plantimports@mpi.govt.nz
http://www.mpi.govt.nz

2 GENERAL CONDITIONS FOR ALL PLANT PRODUCTS

All plants and plant products cannot be imported into New Zealand, unless an import health standard has been issued in accordance with Section 22 of the Biosecurity Act 1993. Should prohibited plants or plant products be intercepted by the Ministry for Primary Industries that are not covered by an import health standard, the importer will be offered the option of reshipment or destruction of the consignment.

The national plant protection organisation of the exporting country is requested to inform the Ministry for Primary Industries of any change in its address.
The national plant protection organisation of the exporting country is required to inform the Ministry for Primary Industries of any newly recorded organisms which may infest/infect any commodity approved for export to New Zealand.

Pursuant to the Hazardous Substances and New Organisms Act 1996, proposals for the deliberate introduction of new organisms (including genetically modified organisms) as defined by the Act should be referred to:

Manager, Operations
Environmental Protection Authority
PO Box 131
Wellington
NEW ZEALAND

Also note:
In order to meet the Environmental Protection Authority's requirements the scientific name (i.e. genus and species) of the commodity must be included in the phytosanitary certificate.

3 EXPLANATION OF PEST CATEGORIES

The Ministry for Primary Industries has categorised organisms associated with plants and plant products into regulated and non-regulated organisms as described below. Organisms (including weeds) associated with each commodity will appear on a separate pest list which will be attached to each import health standard as an Appendix. Weeds may be in the form of seeds or other plant parts.

3.1 REGULATED ORGANISMS

Regulated organisms are those organisms for which phytosanitary actions would be undertaken if they were intercepted/detected. These will include new organisms as defined by the Hazardous Substances and New Organisms Act 1996. Regulated organisms are sub-divided into the following groups:

3.1.1 Quarantine: Risk group 1 pests

Risk group 1 pests are those regulated pests (FAO Glossary of Phytosanitary Terms, 1996) which on introduction into New Zealand could cause unacceptable economic impacts on the production of a commodity/commodities and/or the environment.

3.1.2 Quarantine: Risk group 2 pests

Risk group 2 pests are those regulated pests which on introduction into New Zealand could cause a major disruption to market access (some importing countries require specific pre-export phytosanitary treatments) and/or significant economic impacts on the production of a particular commodity/commodities and/or the environment.

3.1.3 Quarantine: Risk group 3 pests

Risk group 3 pests (e.g. economically significant species of fruit flies) are those regulated pests which on entry into New Zealand would cause a major disruption to market access for a wide range of New Zealand commodities and/or have significant economic impacts on their production and/or the environment (some importing countries prohibit the entry of the host commodity). An
official surveillance system is required for such pests in New Zealand.

3.1.4 Regulated non-quarantine pests

A regulated non-quarantine pest (denoted by "reg." on the pest list) is a pest whose presence in a consignment of plants for planting, affects the intended use of those plants with an economically unacceptable impact and is therefore regulated within the territory of the importing contracting party (Revised IPPC definition, Rome 1997). These pests would be under official control by the use of a Government operated or audited certification scheme.

3.1.5 Regulated non plant pests

Regulated non plant pests are those organisms which, although not pests of plants or plant products, may be associated with plants or plant products in international trade, and may have an affect on human or animal health (eg. black widow spider) and thus fall under the jurisdiction of other New Zealand government departments. The categorisation of these organisms and their associated import restrictions will be applied in accordance with the requirements of the relevant departments.

3.1.6 Vectors of associated quarantine pests

In the context of this import health standard, vectors are those organisms which are able to transmit regulated pests into New Zealand. To prevent the transmission of vectored quarantine organisms to susceptible commodities in New Zealand, it is necessary to prevent the entry of their vectors. Vectors (denoted by "vect." on the pest list) will be categorised as risk group 1 even if they are present in New Zealand, unless they are risk group 2 pests in their own right. If the vectored organism is not present in the exporting country then the associated vector(s), if present in New Zealand, will be categorised as a non-regulated non-quarantine pest(s).

3.1.7 Vectored organisms

Vectored organisms (denoted by "VO" on the pest list) are those regulated pests that are able to enter New Zealand via a vector associated with the imported commodity.

3.1.8 Strains of pests

Where there is documented evidence that a pest associated with the imported commodity has a different host range, different pesticide resistance, vectors a different range of organisms, or is more virulent than that of the same species present in New Zealand, then the different strain (denoted by "strain" on the pest list) of that pest will be categorised accordingly as a risk group 1 or 2 regulated pest.

3.1.9 Unidentifiable organisms

Should identification of an organism not be possible within the required time frame, the organism will be categorised as a regulated pest (either risk groups 1, 2, or 3) until such time as shown otherwise.

3.1.10 Unlisted organisms

Should an organism be intercepted that is not included on the pest list for that commodity, it will be categorised into the appropriate risk group and action taken accordingly.
3.2 NON-REGULATED ORGANISMS

Non-regulated organisms are those organisms for which phytosanitary actions would not be undertaken if they were intercepted/detected. These would include new organisms which could not establish in New Zealand. Non-regulated organisms are sub-divided into the following groups:

3.2.1 Non-regulated non-quarantine pests

Non-regulated non-quarantine pests are either already present in New Zealand and are not under official control or, could not establish in New Zealand.

3.2.2 Non-regulated non plant pests

Non-regulated non plant pests are not pests of plants and are not of concern to the Ministry for Primary Industries or any other New Zealand government department.

3.3 CONTAMINANTS (INCLUDING SOIL)

Consignments contaminated with soil, or other potential carriers of regulated pests (eg. leaf litter) will not be permitted entry if the level of contamination is above the acceptable tolerance.

4 APPLICATION OF PHYTOSANITARY MEASURES

A number of different phytosanitary measures may be applied to pests in each risk group, depending on the commodity and the type of pest. These measures include:

4.1 QUARANTINE: RISK GROUP 1 PESTS

Phytosanitary measures required for risk group 1 pests may include:

- inspection and phytosanitary certification of the consignment according to appropriate procedures by the national plant protection organisation of the exporting country,
- testing prior to export for regulated pests which cannot be readily detected by inspection (eg. viruses on propagating material from accredited facilities), and verified by an additional declaration, to that given on the phytosanitary certificate,
- inspection/testing of the consignment by the Ministry for Primary Industries prior to biosecurity clearance, to ensure the specified pest tolerance has not been exceeded.

4.2 QUARANTINE: RISK GROUP 2 PESTS

Phytosanitary measures required for risk group 2 pests may include all the requirements for risk group 1 pests and may also require pre-export pest control activities to be undertaken by the contracting party, and confirmed by additional declarations to the phytosanitary certificate.

4.3 QUARANTINE: RISK GROUP 3 PESTS

Phytosanitary measures applied to risk group 3 pests may include all the requirements for risk group 1 pests plus:

- the application of a pre-export treatment which has been developed in accordance with
an approved Ministry for Primary Industries standard,
- an official bilateral quarantine arrangement between the Ministry for Primary Industries and Australia national plant protection organisation which includes descriptions of each approved treatment system(s),
- specific additional declarations on the phytosanitary certificate.

4.4 REGULATED NON-QUARANTINE PESTS

Phytosanitary measures applied to regulated non-quarantine pests will generally be the same as for risk group 1 pests, or according to the contingencies implemented for that pest if detected in New Zealand.

4.5 NON-REGULATED NON-QUARANTINE PESTS

No phytosanitary measures are applied to non-regulated non-quarantine pests.

5 GENERAL CONDITIONS FOR FRESH FRUIT/VEGETABLES

Commodity sub-class: fresh fruit/vegetables includes fresh fruit and vegetables for consumption.

Only inert/synthetic material may be used for the protection, packaging and shipping materials of fresh fruit/vegetables.

All host material (fruit/vegetables) of fruit fly species (Diptera: Tephritidae) of economic significance shall only be imported under the terms of a bilateral quarantine arrangement (e.g. agreement, workplan) between the Ministry for Primary Industries Chief Technical Officer and the head of the supply country's national plant protection organisation.

6 SPECIFIC CONDITIONS FOR ZUCCHINIS FROM AUSTRALIA

This import health standard covers the requirements for the entry of all cultivars of *Cucurbita pepo*, for commodity sub-class: fresh fruit/vegetables from Australia only. These cultivars include: zucchini/courgette and scallopini.

The common name zucchini has been used for *Cucurbita pepo* throughout this import health standard.

6.1 PRE-EXPORT REQUIREMENTS

6.1.1 Inspection of the consignment

The Ministry for Primary Industries requires that the Australia national plant protection organisation sample and inspect the consignment according to official procedures for all visually detectable regulated pests (as specified by the Ministry for Primary Industries), with a 95% confidence level, that not more than 0.5% of the units in the consignment are infested (this equates to an acceptance level of zero units infested by quarantine pests in a sample size of 600 units).

6.1.2 Testing of the consignment

Testing of the consignment prior to export to New Zealand for quarantine pathogens which are
not visually detectable is not generally required for fresh zucchinis from Australia.

6.1.3 Documentation

Bilateral quarantine arrangement: Required

Zucchinis, commodity sub-class: fresh fruit/vegetables, may only be imported into New Zealand from Australia under the terms of the bilateral quarantine arrangement.

Phytosanitary certificate: Required.

Import permit/Authorisation to import: Exempt under Gazette Notice: No. AG12, 13 July 1995.

6.1.4 Phytosanitary certification

A completed phytosanitary certificate issued by the Australia national plant protection organisation must accompany all zucchinis, commodity sub-class: fresh fruit/vegetables exported to New Zealand.

Before an export phytosanitary certificate is to be issued, the Australia national plant protection organisation must be satisfied that the following activities required by the Ministry for Primary Industries have been undertaken.

The zucchinis/skallopini have:

- been inspected in accordance with appropriate official procedures and found to be free of visually detectable regulated pests specified by the New Zealand Ministry for Primary Industries.

AND

- undergone an agreed treatment that is effective against species in Quarantine: Risk group 3.

AND

- undergone appropriate pest control activities that are effective against:

  Bemisia tabaci
  Phyllophaga sp.
  Tetranychus kanzawai

OR

been sourced from an area free (verified by an official detection survey) from the following:

  Bemisia tabaci
  Phyllophaga sp.
  Tetranychus kanzawai
Note: Combinations of treatments and area freedom are permissible for the aforementioned risk group 2 regulated pests.

6.1.5 Additional declarations to the phytosanitary certificate

If satisfied that the pre-export activities have been undertaken, the Australia national plant protection organisation must confirm this by providing the following additional declarations to the phytosanitary certificate:

The zucchinis in this consignment have:

- been inspected in accordance with appropriate official procedures and found to be free of any visually detectable regulated pests specified by the New Zealand Ministry for Primary Industries.

AND

- undergone appropriate pest control activities that are effective against those Risk group 2 regulated pests specified by NZ MPI.

OR

- been sourced from an area free from those Risk group 2 regulated pests specified by NZ MPI.

AND

- been treated in accordance with
  - Appendix 2; OR,
  - Appendix 3 and Appendix 10; OR
  - Appendix 4; OR
  - Appendix 10 and Appendix 11

of the Arrangement between the New Zealand Ministry for Primary Industries and the Australia national plant protection organisation concerning the access of host material of fruit fly species of economic significance into New Zealand from Australia.

6.2 TRANSIT REQUIREMENTS

The zucchinis must be packed and shipped in a manner to prevent contamination by regulated pests.

The package should not be opened in transit. However, where a consignment is either stored, split up or has its packaging changed while in another country (or countries) en route to New Zealand, a "Re-export Certificate" is required. Where a consignment is held under bond, as a result of the need to change conveyances, and it is kept in the original shipping container, a "Re-export Certificate" is not required.

6.3 INSPECTION ON ARRIVAL

The Ministry for Primary Industries will check the accompanying documentation on arrival to
confirm that it reconciles with the actual consignment.

The Ministry for Primary Industries requires, with 95% confidence, that not more than 0.5% of the units (for zucchinis, a unit is one fruit) in a consignment are infested with visually detectable regulated pests. To achieve this, the Ministry for Primary Industries will sample and inspect 600 units with an acceptance level of zero infested units (or equivalent), from the (homogeneous) lot.

6.4 BIOSECURITY/QUARANTINE DIRECTIVE

The commodity may be directed to a facility for further treatment if required.

6.5 TESTING FOR REGULATED PESTS

The Ministry for Primary Industries may, on the specific request of the Chief Technical Officer, test zucchinis (commodity subclass: fresh fruit/vegetables) from Australia for regulated pests.

6.6 ACTIONS UNDERTAKEN ON THE INTERCEPTION/DETECTION OF ORGANISMS/CONTAMINANTS

If regulated pests are intercepted/detected on the commodity, or associated packaging, the following actions will be undertaken as appropriate:

6.6.1 Quarantine: Risk group 1 pests

If a risk group 1 pest is intercepted, the importer will be given the option of:-

- treatment (where possible) of the consignment at the importer's risk,
- re-sorting (specific conditions apply) of the consignment,
- reshipment of the consignment,
- destruction of the consignment.

6.6.2 Quarantine: Risk group 2 pests

If a risk group 2 pest is intercepted, the importer will be given the option of:-

- treatment (where possible) at the discretion of the Chief Technical Officer and immediate feedback to the national plant protection organisation of the exporting country with a request for corrective action,
- reshipment of the consignment,
- destruction of the consignment.

6.6.3 Quarantine: Risk group 3 pests

Actions for the interception of risk group 3 pests will include:-

- reshipment of the consignment OR destruction of the consignment,

AND

- the suspension of trade, until the cause of the non-compliance is investigated, identified and rectified. The appropriate actions may be audited by the Ministry for Primary
Industries. Once the requirements of the Ministry for Primary Industries have been met to the satisfaction of the Chief Technical Officer, and supporting evidence is provided and verified by the Australia national plant protection organisation, the trade suspension will be lifted.

6.6.4 Regulated non-quarantine pests

Actions for the interception/detection of regulated non-quarantine pests will be in accordance with the contingencies implemented for that pest if detected in New Zealand.

6.6.5 Regulated non plant pests/unwanted organisms

Actions for the interception/detection of regulated non plant pests/unwanted organisms will be in accordance with the actions required by the relevant government department.

6.6.6 Non-regulated non-quarantine pests

No action is undertaken on the interception of non-regulated non-quarantine pests.

6.6.7 Non-regulated non plant pests/organisms

No action is undertaken on the interception of non-regulated non plant pests/organisms.

6.6.8 Contaminants

Lots with more than 25 grams of soil per 600 unit sample shall be treated, reshipped or destroyed.

Interception of extraneous plant material (e.g. leaves, twigs) in the 600 unit sample will result in the lot being held until an assessment has been made in comparison with the risk of importing the part(s) of the plant species concerned.

6.7 BIOSECURITY CLEARANCE

If regulated pests are not detected, or are successfully treated following interception/detection biosecurity clearance will be given.

6.8 FEEDBACK ON NON-COMPLIANCE

The Australian national plant protection organisation will be informed by the Ministry for Primary Industries Chief Technical Officer of the interception (and treatment) of any regulated pests, "unlisted" pests, or non-compliance with measures specified in this import health standard.

7 CONTINGENCIES FOLLOWING BIOSECURITY CLEARANCE

Should a regulated pest be detected subsequent to biosecurity clearance, the Ministry for Primary Industries may implement a management programme (official control programme) in accordance with Part V of the Biosecurity Act 1993 and Part 5 of the Biosecurity Amendment Act 1997.
Appendix

Pest List
Commodity Sub-class: Fresh Fruit/Vegetables
Scallopini and Zucchini, Cucurbita pepo
from Australia

REGULATED PESTS (actionable)

Quarantine: Risk group 3 pests

Insect

Insecta
Diptera
Tephritidae
  Bactrocera cucumis
  Bactrocera tryoni
  Ceratitis capitata

Quarantine: Risk group 2 pests

Insect

Insecta
  Coleoptera
    Scarabaeidae
      Phyllophaga sp.
  Homoptera
    Aleyrodidae
      Bemisia tabaci

Mite

Arachnida
  Acarina
    Tetranychidae
      Tetranychus kanzawai

Quarantine: Risk group 1 pests

Insect

Insecta
  Coleoptera
    Cerambycidae
      Apomecyna spp.
    Chrysomelidae
      Aulacophora foveicollis
      Aulacophora hilaris
      Monolepta australis
      Promecotheca bryanti
    Coccinellidae
      Epilachna boisdouali
      Epilachna vigintioctomaculata

  vine borers
  red pumpkin beetle
  pumpkin beetle
  red-shouldered leaf beetle
  -
  epilachna beetle
  leaf feeding coccinellid
Epilachna vigintioctopunctata 28-spot ladybird
Henosepilachna cucurbitae cucurbit ladybird
Henosepilachna suffusa -

Curculionidae
Graphognathus peregrinus weevil

Hemiptera
Coreidae
Amblypelta nitida fruit-spotting bug
Fabricillis australis squash bug
Fabricillis gonagra passionvine bug

Dinidoridae
Megymenon insulare cucurbit shield bug

Lygaeidae
Nysius vinitor Rutherglen bug

Miridae
Creontiades dilutus green mirid
Halticiellus tibialis plant bug

Homoptera
Aphididae
Aphis gossypii [vect.] cotton aphid
Myzus persicae [vect.] green peach aphid
cicadellidae
Empoasca spp. green leafhoppers

Diaspididae
Aulacaspis tubercularis common mango scale
Chrysomphalus aonidum Florida red scale
Pseudaelacaspis pentagona white peach scale

Pseudococcidae
Dysmicoccus brevipes pineapple mealybug
Ferrisia virgata striped mealybug
Planococcus minor Pacific mealybug

Lepidoptera
Noctuidae
Anadevidia peponis cucumber looper
Helicoverpa assulta cape gooseberry budworm
Tiracola plagiata banana fruit caterpillar

Pyralidae
Diaphania indica melon moth
Hellula undalis oriental cabbage webworm

Thysanoptera
Thripidae
Thrips hawaiiensis Hawaiian flower thrips
Thrips tabaci [vect.] onion thrips

Mite
Arachnida
Acarina
Acaridae
Tyrophagus dimidiatus mushroom mite

Tetranychidae
Bryobia spp. bryobiid mites
Eutetranychus orientalis pear leaf blister mite
Tetranychus desertorum desert spider mite
Tetranychus lombardinii southern lobed mite
Tetranychus neocaledonicus Mexican spider mite
Fungus

Mitosporic Fungi (Hyphomycetes)
  Tuberculiales
    Tuberculariaceae
      Fusarium oxysporum f. sp. melonis

Oomycota
  Pythiales
    Pythiaceae
      Pythium aphanidermatum - cottony leak
      Pythium mamillatum - root rot
      Pythium myriotylum - rhizome and root rot

Zygomycota: Zygomycetes
  Mucorales
    Choanephoraceae
      Choanephora cucurbitarum - blight

Virus

Phytoplasma

Regulated non-quarantine pests

None

Regulated non plant pests

Insect

  Insecta
    Hymenoptera
      Formicidae
        Solenopsis geminata - fire ant
**NON-REGULATED PESTS (non-actionable)**

Non-regulated non-quarantine pests

### Insect

**Insecta**

**Coleoptera**
- **Curculionidae**
  - *Asynonychus cervinus*  
  - *Listroderes obliquus*  
  - *Naupactus leucoloma*
- **Collembola**
  - **Sminthuridae**
    - *Bourletiella hortensis*  
    - *Sminthurus viridis*
- **Dermoptera**
  - **Forficulidae**
    - *Forficula auricularia*
- **Diptera**
  - **Anthomyiidae**
    - *Delia platura*
  - **Stratiomyidae**
    - *Inopus rubriceps*
- **Hemiptera**
  - **Pentatomidae**
    - *Nezara viridula*
  - **Homoptera**
    - **Aleyrodidae**
      - *Trialeurodes vaporariorum*
    - **Aphididae**
      - *Acyrthosiphon kondoi*  
      - *Acyrthosiphon pisum*  
      - *Aphis craccivora*  
      - *Aulacorthum solani*  
      - *Lipaphis erysimi*  
      - *Macrosiphum euphorbiae*  
      - *Rhopalosiphum rufiabdominalis*
    - **Diaspididae**
      - *Aspidiotus nerii*
    - **Pseudococcidae**
      - *Planococcus citri*  
      - *Pseudococcus viburni*
    - **Ricaniidae**
      - *Scolypopa australis*
- **Lepidoptera**
  - **Noctuidae**
    - *Chrysodeixis eriosoma*  
    - *Helicoverpa armigera*  
    - *Spodoptera litura*
  - **Thysanoptera**
    - **Thripidae**
      - *Frankliniella occidentalis*  
      - *Heliothrips haemorrhoidalis*  
      - *Parthenothrips dracaenae*
Mite

Arachnida
Acarina
Acaridae
Tyrophagus putrescentiae mould mite
Eupodidae
Halotydeus destructor oriental mite
Pentaleus major winter grain mite
Tarsenemidae
Polyphagotarsonemus latus broad mite
Tetranychidae
Panonychus citri citrus red mite
Tetranychus cinnabarinus carmine spider mite
Tetranychus huidae bean spider mite
Tetranychus urticae twospotted spider mite

Fungus

Ascomycota
Dothideales
Unknown Dothideales cucumber stem rot
Didymella bryoniae (anamorph Phoma cucurbitacearum)
Erysiphales
Erysiphaceae
Erysiphe cichoracearum powdery mildew
(anamorph Oidium asteris-punicei)
Hypocreales
Hypocreaceae
Gibberella acuminata (anamorph Fusarium acuminatum) fusarium storage rot
Gibberella avenacea (anamorph Fusarium avenaceum) fusarium stem canker
Gibberella fujikuroi (anamorph Fusarium fujikuroi) fusarium rot
Gibberella gordonia (anamorph Fusarium heterosporum) mould
Gibberella intricans (anamorph Fusarium equiseti) root and stem dry rot
Gibberella zeae (anamorph Fusarium graminearum) mould
Leotiales
Sclerotiniaceae
Botryotinia fuckeliana (anamorph Botrytis cinerea) grey mould
Sclerotinia minor sclerotinia rot
Sclerotinia sclerotiorum cottony rot
Microascales
Unknown Microascales
Ceratocystis paradoxa (anamorph Chalara paradoxa) ceratocystis rot
Phyllachorales
Phyllachoraceae
Glomerella lagenaria --
(anamorph Colletotrichum orbiculare)
Saccharomycetales
Dipodascaceae
Dipodascus geotrichum (anamorph Geotrichum candidum) sour rot

Basidiomycota: Basidiomycetes
Ceratobasidiales
Ceratobasidiae
Thanatephorus cucumeris (anamorph Rhizoctonia solani) rhizoctonia rot
Stereales
Atheliales
Athelia rolfsii (anamorph Sclerotium rolfsii) Rolf's disease
Mitosporic Fungi (Coelomycetes)

Sphaeropsidales

Sphaeroidiales

Lasiodiplodia theobromae  fruit and stem-end rot
Macrophomina phaseolina  ashy stem blight
Septoria cucurbitacearum  --

Unknown Coelomycetes

Unknown Coelomycetes

Colletotrichum coccosides  anthracnose

Mitosporic Fungi (Hyphomycetes)

Hyphomycetales

Dematiaceae

Alternaria cucumerina  --
Epicoccum nigrum  black mould

Moniliaceae

Verticillium dahliae  verticillium wilt

Tuberculariales

Tuberculariaceae

Fusarium culmorum  dry rot
Fusarium oxysporum  leaf spot
Fusarium oxysporum f. sp. niveum  --
Fusarium palidoroseum  fusarium rot
Fusarium poae  fusarium rot
Fusarium solani f. sp. cucurbitae  --

Unknown Hyphomycetes

Unknown Hyphomycetes

Trichothecium roseum  pink rot

Oomycota

Peronosporales

Peronosporaceae

Pseudoperonospora cubensis  downy mildew

Pythiales

Pythiaceae

Phytophthora cryptogea  pink rot
Phytophthora drechsleri  --
Pythium irregularare  pythium root and stem rot
Pythium oligandrum  --
Pythium ultimum  leak

Zygomycota: Zygomycetes

Mucorales

Mucoraceae

Rhizopus arrhizus  wet rot

Bacterium

Enterobacteriaceae

Erwinia carotovora subsp. carotovora  bacterial soft rot

Pseudomonadaceae

Pseudomonas syringae pv. lachrymans  angular leaf spot
Ralstonia solanacearum  bacterial wilt
Xanthomonas campestris pv. cucurbitae  bacterial leaf spot
Non-regulated non plant pests

None