Import Health Standard
Commodity sub-class: Fresh fruit/vegetables

Zucchini
(*Cucurbita pepo*)

From

Australia

Issuance: 17 December 2021

Issuing Authority

This consolidated import health standard for fresh zucchini for human consumption from Australia has been issued under section 24A of the Biosecurity Act 1993 to incorporate amendments made in accordance with section 24B(1)(a) of that Act.

Signature of Lisa Winthrop
Manager, Plant Health
Animal & Plant Health
Ministry for Primary Industries

(acting under delegated authority of the Director General)

Date: 17 December 2021

IMPORT HEALTH STANDARD: FRESH FRUIT/VEGETABLES

Zucchini (*Cucurbita pepo*) from Australia.

Contents

Part A. Background

Scope

This document describes the requirements to be met to enable biosecurity clearance to be given for fresh zucchini (*Cucurbita pepo*) for human consumption imported into New Zealand from Australia.

Commodity description

The commodity description "zucchini" for human consumption is defined as commercially produced fruits trimmed at the point where the stem meets the peduncle and excluding any stem, leaves or flowers.

Definitions

The definitions of relevant phytosanitary terms used in this standard are consistent with the terms stated in the International Standards for Phytosanitary Measures (ISPM) No.5: *Glossary of phytosanitary terms* (2012), produced by the International Plant Protection Convention (IPPC), unless the context otherwise requires or the definition is stated below.

Import health standard (IHS) – a document issued pursuant to section 24A of the Biosecurity Act 1993 on behalf of the Director General, permitting entry to New Zealand of a specific product under certain conditions.

ISPM – International standards for phytosanitary measures.

MPI - the Ministry for Primary Industries which is responsible for regulatory biosecurity functions.

Unit - one zucchini fruit.

Regulated pest - means those organisms for which phytosanitary actions would be undertaken if they were intercepted/detected.

Outcome

The agreed pre-shipment phytosanitary measures for specific regulated pests have been undertaken and the zucchini are free of all regulated pests.

The specific regulated pests as listed in Part C have undergone effective pre-shipment phytosanitary measures. Pre-export visual inspection is required for all regulated pests in Part E.

At a 95% confidence level, not more than 0.5% of the units in the consignment are infested (this equates to an acceptance level of zero units infested by regulated pests in a sample size of 600 units).

Verification activities associated with this performance measure are found in Appendix 1.

Equivalence

MPI may consider a pre-export application for an equivalent phytosanitary measure, different from that provided for in this standard, to maintain at least the same level of

protection assured by the current measures in this standard. Equivalence will be considered with reference to ISPM 24: *Guidelines for the determination and recognition of equivalence of phytosanitary measures* (2011).

Part B. General import requirements for all fresh fruit and vegetables for consumption

The IHS 152.02: *Importation and Clearance of Fresh Fruit and Vegetables into New Zealand* contains the phytosanitary requirements that must be met for all fresh fruit and vegetable commodities that are allowed to be imported into New Zealand. IHS 152.02 outlines transit requirements, inspections on arrival in New Zealand and actions taken on pest interceptions.

IHS 152.02 can be found at the MPI website (https://www.biosecurity.govt.nz/dmsdocument/1147-Importation-and-Clearance-of-Fresh-Fruit-and-Vegetables-into-New-Zealand-Import-Health-Standard).

Part C. Additional requirements for zucchini from Australia

Phytosanitary measures

Australia's National Plant Protection Organisation (NPPO) is required to undertake specific phytosanitary measures that are effective against specific Risk group 2 (RG2) regulated pests and Risk group 3 (RG3) fruit fly species of economic significance to New Zealand, prior to the commodity arriving in New Zealand. Phytosanitary certification will need to attest to this accordingly.

Risk group 2 regulated pests:

- *Bemisia tabaci*
- *Phyllophaga sp*
- *Tetranychus kanzawai*
- *Thrips palmi* (vector)
- *Cucumber green mottle mosaic virus* (CGMMV)

*Specific pre-export phytosanitary measures for the RG2 pest *Thrips palmi* are required; either in-field pest control activities throughout the production season; **or** methyl bromide fumigation at 32g/m^3 for 2 hours at 21°C at a maximum of 50% chamber capacity.

Risk group 3 regulated pests:

- *Bactrocera cucumis*
- *Ceratitis capitata*

Specific pre-export phytosanitary measures for RG3 regulated pests are required: Appendix 2 (pest free area); **or** Appendix 10 (field control programmes) and Appendix 11 (winter window); **or** Appendix 12 (irradiation); these measures are to be carried out in accordance with IHS 152.02 and the bilateral quarantine arrangement.

Inspection of the consignment

Once the phytosanitary measures have been undertaken for the pests specified in the regulated pest list (Part E), Australia's NPPO is required to sample and visually inspect the consignment according to official procedures for all regulated pests to ensure it meets New Zealand's current import requirements.

A phytosanitary certificate should not be issued if live regulated pests are detected, unless the consignment is effectively treated. If organisms are found which are not listed in the IHS, Australia's NPPO must establish their regulatory status by consulting the MPI "Biosecurity Organisms Register for Imported Commodities" (BORIC), online at https://mpi.govt.nz/news-and-resources/resources/registers-and-lists/biosecurity-organisms-register-for-imported-commodities or if an organism is not listed in BORIC, Australia's NPPO must contact MPI to establish the regulatory status of the organism.

Part D. Phytosanitary certification

Activities required for phytosanitary certification

A completed phytosanitary certificate issued by Australia's NPPO must accompany all zucchini consignments exported to New Zealand. The phytosanitary certificate must be in English and must be an original. Bilingual certificates are acceptable as long as English is one of the languages. The phytosanitary certificate also requires the following certification statement as aligned to ISPM 12 (2011);

"This is to certify that the plants, plant products or other regulated articles described herein have been inspected and/or tested according to appropriate official procedures and are considered to be free from the quarantine pests specified by the importing contracting party and to conform with the current phytosanitary requirements of the importing contracting party, including those for regulated non-quarantine pests."

Before a phytosanitary certificate is issued, Australia's NPPO must be satisfied that the following activities have been undertaken.

The zucchini have:

(i) been inspected in accordance with appropriate official procedures and found to be free from regulated pests, specified by the New Zealand Ministry for Primary Industries.

AND

(ii) undergone appropriate pest control activities that are effective against those Risk group 2 (RG2) regulated pests specified by NZ MPI.

AND

(iii) been managed using in-field controls for *Thrips palmi*,

OR

been fumigated with methyl bromide at 32g/m^3 for 2 hours at 21°C for *Thrips palmi*

AND

(iv) been produced in a pest free place of production for *Cucumber green mottle mosaic virus* (CGMMV).

AND

(v) been treated in accordance with Appendix 2; **or** Appendix 10 and Appendix 11; **or** Appendix 12 of the arrangement between the New Zealand Ministry for Primary Industries and the Australian Department of Agriculture, concerning the access of host material of fruit fly species of economic significance into New Zealand from Australia.

Additional declarations to the phytosanitary certificate

If satisfied that the pre-shipment phytosanitary measures have been undertaken effectively, Australia's NPPO must include the following additional declarations on the phytosanitary certificate:

The zucchini in this consignment have:

(i) been inspected in accordance with appropriate official procedures and found to be free from regulated pests, specified by the New Zealand Ministry for Primary Industries.

AND

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

AND

(iii) been produced in a pest free place of production for *Cucumber green mottle mosaic virus* (CGMMV).

AND

(iv) been managed using in-field controls for *Thrips palmi*,

OR

been fumigated with methyl bromide at 32g/m^3 for 2 hours at 21°C for *Thrips palmi*

AND

(v) been treated in accordance with Appendix 2; **or** Appendix 10 and Appendix 11; **or** Appendix 12 of the arrangement between the New Zealand Ministry for Primary Industries and the Australian Department of Agriculture, concerning the access of host material of fruit fly species of economic significance into New Zealand from Australia.

NOTE: Full details of the irradiation or fumigation treatment, including dosage, must be included in the "Disinfestation and/or Disinfection Treatment" area of the phytosanitary certificate or as an endorsed attachment to the phytosanitary certificate.

Part E. Regulated pest list for zucchini from Australia

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent introduction	Actions on interception
Amblypelta nitida	ins	fruit-spotting bug	Regulated	1a & 1b	1 &/or 2
Anadevidia peponis	ins	cucumber looper	Regulated	1a & 1b	1 &/or 2
Aphis gossypii [vect.]	ins	cotton aphid	Regulated	1a & 1b	1 &/or 2
Apomecyna spp	ins	vine borers	Regulated	1a & 1b	1 &/or 2
Aulacaspis tubercularis	ins	common mango scale	Regulated	1a & 1b	1 &/or 2
Aulacophora foveicollis	ins	red pumpkin beetle	Regulated	1a & 1b	1 &/or 2
Aulacophora hilaris	ins	pumpkin beetle	Regulated	1a & 1b	1 &/or 2
Bactrocera cucumis	ins	cucumber fruit fly	Regulated	3	3
Bemisia tabaci	ins	sweet potato whitefly	Regulated	2a or 2b	2a
Ceratitis capitata	ins	Mediterranean fruit fly	Regulated	3	3
Chrysomphalus aonidum	ins	Florida red scale	Regulated	1a & 1b	1 &/or 2
Creontiades dilutus	ins	green mirid	Regulated	1a & 1b	1 &/or 2
Diaphania indica	ins	melon moth	Regulated	1a & 1b	1 &/or 2
Dysmicoccus brevipes	ins	pineapple mealybug	Regulated	1a & 1b	1 &/or 2
Empoasca spp	ins	green leafhoppers	Regulated	1a & 1b	1 &/or 2
Epilachna boisduvali	ins	epilachna beetle	Regulated	1a & 1b	1 &/or 2
Epilachna vigintioctomaculata	ins	leaf feeding coccinellid	Regulated	1a & 1b	1 &/or 2
Epilachna vigintioctopunctata	ins	28-spot ladybird	Regulated	1a & 1b	1 &/or 2
Fabrictilis australis	ins	squash bug	Regulated	1a & 1b	1 &/or 2
Fabrictilis gonagra	ins	passionvine bug	Regulated	1a & 1b	1 &/or 2
Ferrisia virgata	ins	striped mealybug	Regulated	1a & 1b	1 &/or 2
Graphognathus peregrinus	ins	weevil	Regulated	1a & 1b	1 &/or 2
Halticiellus tibialis	ins	plant bug	Regulated	1a & 1b	1 &/or 2
Helicoverpa assulta	ins	cape gooseberry budworm	Regulated	1a & 1b	1 &/or 2
Hellula undalis	ins	Oriental cabbage webworm	Regulated	1a & 1b	1 &/or 2
Henosepilachna cucurbitae	ins	cucurbit ladybird	Regulated	1a & 1b	1 &/or 2
Henosepilachna suffusa	ins	-	Regulated	1a & 1b	1 &/or 2
Megymenum insulare	ins	cucurbit shield bug	Regulated	1a & 1b	1 &/or 2
Monolepta australis	ins	red-shouldered leaf beetle	Regulated	1a & 1b	1 &/or 2
Myzus persicae [vect.]	ins	green peach aphid	Regulated	1a & 1b	1 &/or 2
Nysius vinitor	ins	Rutherglen bug	Regulated	1a & 1b	1 &/or 2
Phyllophaga sp.	ins	crown girdler	Regulated	2a or 2b	2a
Planococcus minor	Ins	Pacific mealybug	Regulated	1a & 1b	1 &/or 2
Promecotheca bryanti	ins	-	Regulated	1a & 1b	1 &/or 2
Pseudaulacaspis pentagona	ins	white peach scale	Regulated	1a & 1b	1 &/or 2
Solenopsis geminata	ins	fire ant	Regulated	1a & 1b	1 &/or 2
Thrips hawaiiensis	ins	Hawaiian flower thrips	Regulated	1a & 1b	1 &/or 2
Thrips palmi [vect.]	ins	palm thrips	Regulated	2a or 2b	2a

Scientific name	Organism type	Common name	Quarantine status	Measures to prevent introduction	Actions on interception
Thrips tabaci [vect.]	ins	onion thrips	Regulated	1a & 1b	1 &/or 2
Tiracola plagiata	ins	banana fruit caterpillar	Regulated	1a & 1b	1 &/or 2
Choanephora cucurbitarum	fun	blight	Regulated	1a & 1b	1 &/or 2
Fusarium oxysporum f. sp. *Melonis*	fun	-	Regulated	1a & 1b	1 &/or 2
Pythium aphanidermatum	fun	cotton leak	Regulated	1a & 1b	1 &/or 2
Pythium mamillatum	fun	root rot	Regulated	1a & 1b	1 &/or 2
Pythium myriotylum	fun	rhizome and root rot	Regulated	1a & 1b	1 &/or 2
Bryobia spp	mit	bryobiaid mites	Regulated	1a & 1b	1 &/or 2
Eutetranychus orientalis	mit	pear leaf blister mite	Regulated	1a & 1b	1 &/or 2
Tetrabychus desertorum	mit	desert spider mite	Regulated	1a & 1b	1 &/or 2
Tetranychus kanzawai	mit	kanzawa mite	Regulated	2a or 2b	2a
Tetranychus lombardinii	mit	southern lobed mite	Regulated	1a & 1b	1 &/or 2
Tetranychus neocaledonicus	mit	Mexican spider mite	Regulated	1a & 1b	1 &/or 2
Tyrophagus dimidiatus	mit	mushroom mite	Regulated	1a & 1b	1 &/or 2
Tomato big bud phytoplasma	phy	-	Regulated	1a & 1b	1 &/or 2
Cucumber green mottle mosaic virus (CGMMV)	vir	-	Regulated	2a	3
Tobacco ringspot nepovirus [strain] [VO]	vir	-	Regulated	1a & 1b	1 &/or 2

[vect.] = vector

Measures to prevent entry & establishment

- 1a Visual inspection of produce and associated packaging
- 1b Consignment must be free from extraneous plant material – pests are associated with other plant parts (e.g., leaves, stems, flowers)
- 2a Undergone appropriate pest control activities (*for CGMMV consignment has been produced in a pest free place of production)*
- 2b Pest free area (based on official detection survey)
- 3 Agreed offshore fruit fly treatment
- 4 Approved generic treatment

Actions on interception

- 1 Removal of trash – pests are associated with other plant parts (e.g., leaves, stems, flowers)
- 2 Treat, reship or destroy
- 2a Treat, reship or destroy. Suspend pathway
- 3 Reship or destroy. Suspend pathway

Note: The suspension of the pathway could be at the grower, packhouse, treatment facility, state or country level, depending on the significance of the pest interception.

Appendix 1: Verification activities on arrival in New Zealand

MPI will inspect documentation on arrival in New Zealand. In addition, MPI may inspect a sample from each lot on arrival in New Zealand to verify requirements of the IHS have been met.

MPI requires, with 95% confidence, that not more than 0.5% of the units in a consignment are infested with visually detectable, viable, regulated pests or trash. To achieve this, New Zealand MPI will sample and inspect 600 units with an acceptance level of zero infested units (or equivalent), from the (homogenous) lot.