

Import Health Standard Schedule for *Miscanthus* spp.

Issued pursuant to Section 22 of the Biosecurity Act 1993.



The importation of permitted species of this genus must be undertaken in accordance with the additional entry conditions specified within this schedule **AND** the Basic conditions contained within the Import Health Standard 'Nursery Stock from All Countries'

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General Conditions:

- Import Permit Required:** Yes
- Phytosanitary Certificate Required:** Yes
- Permitted Countries:** United Kingdom and the United States of America
- Permitted Commodity classes:** Plants *in vitro*
- Permitted Species:** Refer [Plants Biosecurity Index](#)
- Entry Conditions:**
[Basic](#); with additional conditions as specified within this schedule.

Specific Requirements:

Plants *in vitro*

- PEQ:** [L2](#)
- Minimum PEQ Period:** 60 days
- PEQ Conditions:**

A minimum post entry quarantine period of 60 days (active continuous growth) is required to complete inspections and/or testing to detect regulated pests. The quarantine period may be extended if material is slow growing, pests are detected, or additional treatments/tests are required. The costs of all inspections, tests and treatments while the *Miscanthus* nursery stock is in PEQ shall be borne by the importer.

Phytosanitary Requirements:

Before a phytosanitary certificate is issued, the exporting country NPPO must

be satisfied that the following activities required by MAF have been undertaken:

The *Miscanthus* plants *in vitro* in this consignment have been:

- (i) propagated in culture media which is clear
- (ii) prepared by asexual reproduction (clonal techniques) under sterile conditions
- (iii) inspected and found to comply with the requirements of this import health standard schedule and [Basic](#) conditions within the Import Health Standard 'Nursery Stock from all Countries'
- (iv) held in a manner to ensure that infestation/reinfestation does not occur following inspection by the NPPO

Additional Declarations required on the Phytosanitary Certificate:

The following additional declarations must be identified on the phytosanitary certificate.

The *Miscanthus* plants *in-vitro* in this consignment have been:

- (i) derived from mother plants sourced from a "Pest free area," Pest free place of production" or "Pest free production site", free from *Leifsonia xyli* subsp. *Xyli*, *Miscanthus* streak virus, and Sugarcane mosaic virus
- (ii) derived from mother plants sourced from a "Pest free area," Pest free place of production" or "Pest free production site", free from *Puccinia melanocephala* and *Ustilago scitaminea* **OR** derived from explants that have been subjected to two consecutive hot water treatments at a minimum temperature of 50°C for 3 hours per treatment

Note: If an additional declaration cannot be attested to on the phytosanitary certificate by the NPPO, inspection and testing may be completed in post-entry quarantine upon arrival in New Zealand as specified below in accordance with Table 1 of this schedule.

Regulated Pest List for *Miscanthus*:

Bacteria

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|---|-----------------------------------|
| <i>Acidovorax avenae</i> ssp. <i>avenae</i> | Bacterial leaf blight |
| <i>Leifsonia xyli</i> subsp. <i>Xyli</i> | Sugarcane ratoon stunting disease |

Fungi

| | |
|---------------------------|----------------------|
| <i>Acremonium</i> sp. | Black bundle disease |
| <i>Colletotrichum</i> sp. | Leaf spot |
| <i>Diaporthe</i> sp. | Canker |
| <i>Diplodia</i> sp. | Blight |

| | |
|--------------------------------------|-------------------|
| <i>Drechslera gigantea</i> | Eyespot |
| <i>Fusarium miscanthi</i> | Rot |
| <i>Fusarium pallidoroseum</i> | Rot |
| <i>Glomerella</i> sp. | Leaf spot |
| <i>Glomerella tucumanensis</i> | Leaf spot |
| <i>Helminthosporium</i> sp. | Eyespot |
| <i>Leptosphaeria</i> sp. | Canker |
| <i>Magnaporthe salvinii</i> | Stem rot |
| <i>Mycosphaerella recutita</i> | Leaf blight |
| <i>Mycosphaerella striatiformans</i> | Leaf spot |
| <i>Nigrospora</i> sp. | Stalk rot |
| <i>Passalora koepkei</i> | Yellow spot |
| <i>Peronosclerospora</i> sp. | Downy mildew |
| <i>Phlyctema</i> sp. | Canker |
| <i>Phoma</i> sp. | Blight |
| <i>Phomopsis</i> sp. | Blight |
| <i>Phyllachora</i> sp. | Leaf spot |
| <i>Puccinia melanocephala</i> | Sugarcane rust |
| <i>Ramularia</i> sp. | Anthracnose |
| <i>Rhizoctonia</i> sp. | Root rot |
| <i>Stagonospora</i> sp. | Scorch |
| <i>Thanatephorus cucumeris</i> | Blight |
| <i>Ustilago scitaminea</i> | Sugarcane smut |
| <i>Verticillium</i> sp. | Verticillium wilt |

Mites

| | |
|-----------------------------------|-------------|
| <i>Schizotetranychus celarius</i> | Bamboo mite |
|-----------------------------------|-------------|

Viruses

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|--------------------------------|
| <i>Miscanthus streak virus</i> |
| <i>Sugarcane mosaic virus</i> |

*For organisms intercepted that are not listed within this pest list refer to the [Biosecurity Organisms Register for Imported Commodities](#) to determine regulatory status. If the organism is not identified or categorised within the register, please contact plantimports@maf.govt.nz

Table 1. Inspection and Testing Requirements during post entry quarantine

Note: Inspection and testing requirements identified within Table 1 are only required to be undertaken when additional declaration requirements specified in this schedule have not been identified on phytosanitary certificates accompanying consignments of *Miscanthus* in-vitro plants imported into New Zealand.

| ORGANISM | MAF BNZ ACCEPTABLE MEASURES |
|--|--|
| Regulated Bacteria | |
| <i>Leifsonia xyli</i> subsp. <i>xyli</i> | PCR |
| Regulated Fungi | |
| <i>Puccinia melanocephala</i> | Two consecutive hot water treatments at a minimum temperature of 50°C for 3 hours per treatment |
| <i>Ustilago scitaminea</i> | PCR or two consecutive hot water treatments at a minimum temperature of 50°C for 3 hours per treatment |
| Regulated Viruses | |
| <i>Miscanthus streak virus</i> | PCR |
| <i>Sugarcane mosaic virus</i> | PCR or ELISA |

Notes:

1. Unit for testing

The accepted unit for testing is an individual tissue culture plantlet for plants *in vitro*. Each single plantlet must be labeled individually and tested separately.

2. Enzyme linked immunosorbent assay (ELISA) tests.

All ELISA tests must be validated using positive controls prior to use in quarantine testing. Positive, negative, and buffer controls must be used in all tests.

3. Polymerase chain reaction (PCR) tests

All PCR tests must be validated using positive controls prior to use in quarantine testing. Positive and no template controls must be used in all tests. Internal control primers and a negative plant control shall be used in PCR tests.

4. **Inspection**

The operator of the PEQ facility must inspect the plants for signs of pest and disease at least twice per week during periods of active growth.

5. **Other internationally recognised testing methods**

May be accepted by MAF Biosecurity New Zealand with prior notification.

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