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Canadian Food Agence canadienne Inspection Agency d'inspection des aliments

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**D-96-20** 

(EFFECTIVE DATE) February 27, 2006 (5<sup>th</sup> Revision)

Title/titre: Canadian Growing Media Program (CGMP), Prior Approval Process and Import Requirements for Plants Rooted in Approved Media

File/Notre Référence 3525-11S2

### SUBJECT:

This directive contains the Canadian Growing Media Program (CGMP) and states the phytosanitary import requirements for plants rooted in approved media not containing soil and related matter.

The 2<sup>nd</sup> revision clarified the requirements for the plant production facilities, approval process, export broker responsibilities, and Permit to Import and inspection requirements for samples sent to the Canadian Food Inspection Agency (CFIA) for evaluation.

*The* 3<sup>*rd*</sup> *revision allowed the entry of plants grown in approved media from the continental United States (US.).* 

The 4<sup>th</sup> revision clarified infested areas in Oregon, US, for Sudden Oak Death.

This revision clarifies the instructions for submitting plant samples with growing media to obtain approval under the CGMP and changes the requirements for the approval of new plant genera from approved Plant Production Facilities. Information for the importation of plants anchored in, or otherwise associated with, non-manufactured forest products is also included.



Page 1 of 17

# **Table of Contents**

Review
Endorsement
Amendment Record
Distribution
ntroduction
General Requirements51.1Legislative Authority1.2Fees1.3Regulated Pests1.4Regulated Commodities1.5Commodities Exempt1.6Regulated Areas
2.0       Specific Requirements       7         2.1       Non-Manufactured Forest Products       7         2.2       Approved Media       7
8.0Canadian Growing Media Program (CGMP) Production and Facility Requirements83.1Approved media MUST83.2The Plant Production Facility MUST83.3The Plant Production Procedures MUST Involve93.4CGMP Approval Process103.5Inspection Procedures123.6Non-Compliance13
<ul> <li>List of Appendices</li></ul>

#### Review

This directive will be reviewed every 5 years or as needed. The next review date for this directive is February 27, 2011. The contact for this directive is Joanne Rousson. For further information or clarification, please contact the Horticulture Section.

### Endorsement

Approved by:

Director Plant HealthDivision

### Amendment Record

Amendments to this directive will be dated and distributed as outlined in the distribution below.

#### Distribution

- 1. Directive mail list (Regions, PHRA, USDA)
- 2. Provincial Government, Industry (via Regions)
- 3. National Industry Organizations (determined by Author)
- 4. Internet

#### Introduction

Soil is recognized internationally as a high risk pathway for the introduction of numerous organisms injurious to plants. The introduction of soil-inhabiting pests into Canada could cause an increase in crop production costs, serious crop loss and damage to plants in non-cultivated environments, and loss of export markets for Canadian agricultural and forestry commodities. Section 1.3 of this document lists examples of soil-inhabiting quarantine pests of Canada that are regulated by the Canadian Food Inspection Agency (CFIA). These pests are found in many countries around the world.

Restrictions have been put in place to prevent the introduction into Canada of quarantine pests associated with soil. The importation of soil is prohibited into Canada from all off-continent sources and some areas of the US. The Canadian greenhouse and floriculture industries have expressed a desire to source plants with growing media, as certain plants do not thrive when transported bare-root.

In 1974, the first Canadian Growing Media Program (CGMP) was developed to allow the entry of plants growing in approved media. The program required prior approval for all media, before

importation was authorized. Exporting plant production facilities were required to demonstrate fully their ability to meet all requirements before approval was granted. The production facilities were also required to maintain conditions whereby the exported plants and approved media would be free of plant pests and relatively free of other soil-inhabiting organisms.

This program is designed to minimize contamination of media and production area by plant pests. Some measures such as raised benches and disinfection of water and drainage systems are aimed at minimizing infestations by pests such as nematodes which are invisible to the naked eye but are readily transported via water.

Under this program, it is the Plant Production Facility and not the export broker that is approved.

- Scope This directive is for use by CFIA inspectors, Canada Border Services Agency, National Plant Protection Organizations in other countries, foreign plant production facilities, brokers and Canadian importers of plants that will be imported in a soil-less growing medium.
- References D-02-02 "Plant Protection Imports Requirements for Rooted, or Unrooted Plants, Plant Parts, and Tissue cultured plants for propagation" D-95-26 "Phytosanitary Requirements for Soil and Related Matter, alone or in association with Plants"

# This document supercedes D-96-20, 4<sup>th</sup> Revision, dated February 22, 2002.

Definitions, Abbreviations and Acronyms

Approved Growing Medium	Approved growing medium refers to a synthetic or naturally occurring substance or a mixture of such substances readily distinguishable from soil and rendered sterile for use as a rooting or propagating medium for production of plant seedlings or cuttings. Plants rooted in an approved growing medium and originating from an exporter approved under the Canadian Growing Media Program (CGMP) (policy directive D-96-20) are admissible into Canada.
Broker	A broker in the CGMP is defined as an exporter who does not own or operate a facility for producing plants but ships plants produced by approved production facilities. Brokers do not receive approval under CGMP.
CFIA	Canadian Food Inspection Agency
CGMP	Canadian Growing Media Program

CPQP Growing medium	Centre for Plant Quarantine Pests Any material in which plant roots are growing or intended for that purpose. (FAO, 1990)
Non-Manufactured Forest Product	Wood products, excluding any wood-based products which have been created using glue, heat, pressure, or a combination thereof.
Plant Protection Organization	The official service established by government to discharge the functions specified by the International Plant Protection Convention. (FAO, 1990)
Production Facility	A production facility is defined as an establishment that has applied for approval and has been approved or is in the process of being approved by CFIA to produce plants under the requirements of the CGMP.
Soil and related matter	The loose surface of the earth in which plants grow, in most cases consisting of disintegrated rock with an admixture of organic matter. (NAPPO, 1999) Related matter is clay, silt, sand, soil minerals, humus, compost, earthworm castings, muck, plant litter and debris, either individually or in combination.
Sterile medium	A substrate in which all organisms have been destroyed. (NAPPO, 1985)

### 1. General Requirements

### 1.1 Legislative Authority

*The Plant Protection Act, S.C. 1990, c22 The Plant Protection Regulations, SOR/95-212 Canadian Food Inspection Agency Fees Notice, Canada Gazette, Part 1* (05/13/2000)

# 1.2 Fees

The CFIA charges fees in accordance with the Canadian Food Inspection Agency Fees Notice. For information regarding fees associated with imported product, please contact the Import Service Centres (ISC) at the following phone numbers: Eastern ISC 1-877-493-0468; Central ISC 1-800-835-4486; Western ISC 1-888-732-6222. Anyone requiring other information regarding fees may contact any local CFIA office or access the CFIA website at www.inspection.gc.ca.

### **1.3 Regulated Pests**

The following list names the major soil borne quarantine pests of Canada, for which specific requirements have been developed. This list is not exhaustive and is subject to change.

Apple maggot, *Rhagoletis pomonella* (Walsh); Blueberry maggot, *Rhagoletis mendax* Curran; Brown rot, *Ralstonia solanacearum* race 3, (*Pseudomonas solanacearum*); Columbia root-knot nematode, *Meloidogyne chitwoodi* (Golden et al.); Dwarf bunt, *Tilletia controversa* (Kuhn); European brown garden snail, *Helix aspersa* Mueller ; Golden nematode, *Globodera rostochiensis* (Woll.); Japanese beetle, *Popillia japonica* Newman; Onion white rot, *Sclerotium cepivorum* (Berk); Pale cyst nematode, *Globodera pallida* (Stone) Behrens; Potato rot nematode, *Ditylenchus destructor* (Thorne); Potato smut, *Thecaphora solani* (Barrus); Potato wart, *Synchytrium endobioticum* Schlib. (Perc); Soybean cyst nematode, *Heterodera glycines* (Ichinoe); Sudden Oak Death, *Phythophthora ramorum*. (Werres et al.);

For a more complete list, please refer to the regulated pest list or visit the following CFIA website at: http://www.inspection.gc.ca/english/plaveg/protect/producte.shtml

#### **1.4 Regulated Commodities**

Growing media in which plants, liners, cuttings, slips or seedlings are rooted.

- **Note:** Materials used for packing. Please refer to policy directive D-02-02 for a list of approved packing materials. The general requirements for importing rooted or unrooted plants, plant parts, and tissue cultured plants for planting can be found in policy directive D-02-02. Please refer to the CFIA website for detailed information at <u>www.inspection.gc.ca.</u>
- **Note:** Phytosanitary requirements for soil with or without plants are described in D-95-26.

#### 1.5 Commodities Exempt

Transparent or translucent aseptic medium for tissue cultured plants.

#### 1.6 Regulated Areas

All countries and territories including the continental US.

#### 2.0 Specific Requirements

Plants and growing media must be free of quarantine pests. Plants originating from all countries are subject to the phytosanitary requirements stipulated in policy directives D-95-26 and D-02-02. Please refer to the CFIA website for detailed information at <u>www.inspection.gc.ca.</u>

#### 2.1 Non-Manufactured Forest Products

Untreated bark, bark chips, logs, roots, wood, decorative wood and any other nonmanufactured forest products are generally prohibited entry into Canada from all countries other than the continental US and additional restrictions and declarations may be required from those regions of the continental US that are regulated. (See policy directive D-02-12).

Specific requirements for the importation of orchids are found in policy directive D-96-09.

#### 2.2 Approved Media

To prevent the introduction of quarantine pests associated with soil, plants rooted in approved media may be imported into Canada from regulated areas if:

- 2.2.1 The plants originate from an export Plant Production Facility approved under the CGMP and;
- 2.2.2 The Canadian importer holds a valid Permit to Import. A copy of a valid Permit to Import must accompany each shipment including evaluation samples (see Appendix 1). The Permit to Import must state the plant genera and the growing medium combination to be imported, and;
- 2.2.3 Each shipment must be accompanied by an original Phytosanitary Certificate which indicates the name of the approved production facility and contains the following additional declaration:

"The material was produced in conformance with the Canadian Growing Media Program."

If the production facility is not identified as the exporter on the Phytosanitary Certificate, the production facility name must appear on the Phytosanitary Certificate in the additional declaration section, and;

2.2.4 The Phytosanitary Certificate lists the plants with their scientific name and their associated growing media, and;

#### 3.0 Canadian Growing Media Program (CGMP) Production and Facility Requirements

A production facility may be approved to export plants to Canada under the CGMP, if the following production requirements are met, and if the National Plant Protection Organization in the exporting country and CFIA both approve the Plant Production Facility. The production and facility requirements are as follows:

#### **3.1** Approved media MUST:

- 3.1.1 Consist of synthetic or other approved substances (other than soil and related matter) used singly or in combinations. Examples of approved growing media include expanded or baked clay pellets, expanded polystyrene beads, floral foam, ground coconut husk, ground cocoa pods, ground coffee hulls, ground rice husk, peat, perlite, pumice, recycled paper, rock wool, sawdust, sphagnum, styrofoam, synthetic sponge, vermiculite, and volcanic ash or cinder.
- 3.1.2 Contain only substances that were not used previously for growing plants or other agricultural purposes.
- 3.1.3 Remain free of, or rendered inherently free of, plant pests.
- 3.1.4 Remain free of soil and related matter.

#### **3.2 The Plant Production Facility MUST:**

- 3.2.1 Be of a construction that encloses the plant production area (for instance, a rigid construction equipped with insect-proof screening in vents and automatic or self closing double doors at the entry into the facility) or be of a construction specifically approved by the Plant Health Division of CFIA as appropriate for minimizing pest risk in a specific situation.
- 3.2.2 Remain free of soil and related matter.
- 3.2.3 Be isolated from adjoining facilities where soil and related matter is used or stored.

- 3.2.4 Have raised benches that are high enough above the floor to avoid any pest contamination from the ground or water splashing. CFIA may approve other systems that minimize the risk of pest contamination from the ground or water splashing on a case by case basis.
- 3.2.5 Have an entry way and floors that can easily be decontaminated as required (for instance, an entry way and floors that are constructed of an impermeable solid material such as cement, ceramic, concrete, steel, tiles). CFIA may approve other entry and floor material on a case by case basis.
- 3.2.6 Have a drainage system that can be decontaminated as required.

#### **3.3** The Plant Production Procedures MUST Involve:

- 3.3.1 The use of clean water (e.g., treated, disinfected, or heated to eliminate live plant pathogens and invertebrates) during production. Municipal tap water, as long as it has been appropriately treated by the municipality, is acceptable.
- 3.3.2 Grow plants in a manner that avoids contamination from the floor or structure of the production facility. This may include production of plants on raised benches where the benches are high enough above the floor to avoid pest contamination from the ground and splashing water, or other production systems approved by the CFIA.
- 3.3.3 Measures to prevent the entry and establishment of plant pests in growing media and to eliminate plant pests on the plant foliage and in the production facility.
- 3.3.4 Pest control products applied to the drainage system area and to the raised benches to prevent the establishment of plant pests in these areas.
- 3.3.5 The maintenance of the production facility in a clean state by routine disinfection of floors, benches, handling equipment and tools.
- 3.3.6 The storage of growing media separately to safeguard from other sources of contamination.
- 3.3.7 Restricted access to the production facility to only authorized personnel that are familiar with the program requirements and are aware of the need to follow strict phytosanitary practices.

These procedures apply to all plants intended for export to Canada, and to the propagative stock materials being used for the production of those plants.

#### **3.4 CGMP Approval Process**

- 3.4.1 Approval of New Plant Production Facilities
- 3.4.1.1 The exporting Plant Production Facility or the broker must first contact the National Plant Protection Organization in the exporting country to discuss prior approval procedures or to initiate a review.
- 3.4.1.2 For each new production facility intending to export plants in growing media to Canada, the foreign National Plant Protection Organization shall:
  - Inspect the new production facility (as per sections 3.2 and 3.3 above) to ensure compliance with the CGMP requirements.
  - Collect samples of each plant genus and growing media of each plant genus to be evaluated when performing the inspection to detect the presence of soil and related matter, plant pests and other organisms. A sample must include a minimum of six plants or plantings of a genus intended for export, rooted in a single medium type. The medium-and-roots of the sample must provide a minimum total volume of 300 ml. Each medium/plant-genus combination intended for export must be represented by a separate sample.
  - Evaluate the samples to ensure compliance with the CGMP requirements. This evaluation must include an extraction of the sample (both roots and medium) to detect nematodes.
  - Recommend (in writing to CFIA) the Plant Production Facility's eligibility to participate in the CGMP.
  - Advise the Plant Production Facility to contact a Canadian importer before sending representative samples to CFIA for evaluation, once CFIA has accepted the recommendation to evaluate samples.
- 3.4.1.3 A Canadian importer must apply for and obtain a specific Canadian Permit to Import for the evaluation of samples from the production facility. The Permit to Import must specify which growing media and plant genera and species the foreign Plant Production Facility is intending to send for evaluation and that the samples are being sent to the CFIA / CPQP laboratory. Please refer to Appendix 1 for detailed instructions.
- 3.4.1.4 Once the Permit to Import for the samples is issued, the exporting Plant Production Facility sends representative samples to the CFIA / CPQP laboratory for evaluation following the requirements outlined on the Permit to Import and according to the instructions outlined in Appendix 1.

- 3.4.1.5 CFIA approves exporting plant production facilities under the CGMP for the purpose of exporting plants rooted in the approved growing medium to Canada if:
  - The production facility and production procedures are approved by the National Plant Protection Organization in the exporting country, as having met the production requirements.
  - Representative samples submitted to CFIA / CPQP laboratory for evaluation must be free of quarantine pests, practically free of other pests, and free of soil, and related matter. The medium must also be relatively free from other soil-inhabiting fauna such as collembolans, copepods, insect larvae, mites, oligochaete, rotifers, tardigrades.
  - An original Phytosanitary Certificate accompanies the samples sent to the CFIA/CPQP laboratory and has the required additional declaration (see Section 2.2.3)
- 3.4.1.6 CFIA advises the National Plant Protection Organization in the exporting country as to whether the production facility is approved.
- 3.4.1.7 Once approved, CFIA adds the exporting Plant Production Facility to CFIA's list of approved production facilities, growing media and plant genera. Access to this list is limited due to the confidential, proprietary information it contains. This list is maintained by CFIA and is only available to CFIA staff on the Intranet (Merlin).
- 3.4.2 For an Approved Plant Production Facility to Maintain Approval

The foreign National Plant Protection Organization must inspect the production facility regularly, not less than twice per year. Conditions in sections 3.2 and 3.3 must continue to be met and only approved growing media can be used for export to Canada.

3.4.3 Approval of a New Growing Medium or a New Plant Genera from an Approved Plant Production Facility

Each time an approved production facility wants to export plants grown in a new medium and / or new plant genera, in an already approved medium or new medium, it must meet the following requirements before commercial shipments may be permitted entry into Canada.

3.4.3.1 For each approved production facility intending to export new plant genera and / or plants in a new growing media to Canada, the foreign National Plant Protection Organization shall:

- Sample plants and growing media of each plant genus to be evaluated when performing the inspection to detect the presence of soil and related matter, plant pests and other organisms. Each sample must include a minimum of six plants or plantings of a single new genus intended for export, rooted in one medium type. The medium-and-roots of the sample must provide a minimum total volume of 300 ml. Each growing medium/plant-genus combination intended for export must be represented by a separate sample.
- Evaluate the samples to ensure compliance with the CGMP requirements. This evaluation must include an extraction of the sample (both roots and medium) to detect nematodes.
- Recommend to the CFIA in writing, that the new growing medium/plant-genus combination be approved under the CGMP.
- Advise the Plant Production Facility to contact a Canadian importer before sending representative samples to CFIA for evaluation, once CFIA has accepted the recommendation to evaluate samples.
- 3.4.3.2 A Canadian importer must apply for and obtain a specific Canadian Permit to Import for the evaluation of samples from the production facility. The Permit to Import must specify which growing media and plant genera and species the foreign Plant Production Facility is intending to send for evaluation and indicate that the destination of the samples is the CFIA / CPQP laboratory. Please refer to Appendix 1 for detailed instructions.
- 3.4.3.3 Once the Permit to Import for the samples is issued, the exporting Plant Production Facility sends representative samples to CFIA / CPQP laboratory for evaluation following the requirements outlined on the Permit to Import and according to the instructions outlined in Appendix 1.
- 3.4.3.4 CFIA advises the National Plant Protection Organization in the exporting country as to whether the new growing medium is approved.
- 3.4.3.5 Once approved, CFIA adds the new media and / or new genus to CFIA's list of approved production facilities, growing media and plant genera. Access to this list is limited due to the confidential, proprietary information it contains. This list is maintained by CFIA and is only available to CFIA staff on the Intranet (Merlin).

#### **3.5 Inspection Procedures**

Shipments of plants in approved media from approved production facilities are subject to inspection and audit sampling on arrival to ensure compliance with CGMP requirements, and to verify the absence of plant pests and soil.

- 3.5.1 For those shipments inspected, CFIA will:
  - 1. Verify that an original Phytosanitary Certificate accompanies the shipment and that the required additional declaration is stated on the certificate. If the production facility is not the exporter, the production facility name and address must be indicated under the additional declaration section, and;
  - 2. Verify that the plants originated from an approved production facility and were grown in approved media as listed on CFIA's Approved Production Facilities, Growing Media and Plant Genera list. The Plant Health Division maintains this list for CFIA staff. In cases where the plant producer is not the exporter, the production facility name must appear on the Phytosanitary Certificate in the additional declaration section, and;
  - 3. Examine the product for freedom from plant pests, and;
  - 4. Audit shipments at the rate of one in every 10 shipments or focus on known or suspected high risk shipments. Submit plant specimens including growing media to the CFIA / CPQP laboratory according to the instructions outlined in Appendix 2.
  - 5. Release shipments when in compliance with the import requirements. For non-compliance, see Section 3.6.
- 3.5.2 For shipments of samples for evaluation to obtain approval under the CGMP, CFIA must:
  - 1. Ensure that samples of plants rooted in growing media and shipped to the CFIA / CPQP laboratory proceed directly to the CFIA / CPQP laboratory where they will be inspected.

#### **3.6** Non-Compliance

Shipments which do not meet requirements, or are found to be infested with quarantine pests or potential quarantine pests, may be refused entry, returned to origin, or disposed of at the importer's expense. The importer is responsible for any and all costs relating to treatment, disposal, removal or rerouting, including costs incurred by CFIA to monitor the action taken.

The discovery of any quarantine plant pest in the growing medium will result in an immediate suspension of importation from that facility.

Production facilities that do not consistently meet the phytosanitary standards and/or that violate any phytosanitary requirement will be suspended from the CGMP. The Plant Health Division of the CFIA will advise the National Plant Protection Organization in the exporting country of pest interceptions and non-compliance with the CGMP.

CFIA may inspect production facilities on-site, review inspection methods and pest management programs, inspect plants intended for export and stock plants used for propagation, and verify the origin of material shipped to Canada for compliance.

#### 4.0 List of Appendices

Appendix 1:	Instructions for Exporting Plant Production Facilities for
	Submitting Plant Samples with their Growing Media for Prior
	Approval Under the CGMP
Appendix 2:	Submission of Audit Samples From Consignments Imported Under
	the CGMP for CFIA Inspectors

# **Appendix 1**

## INSTRUCTIONS FOR EXPORTING PLANT PRODUCTION FACILITIES FOR SUBMITTING PLANT SAMPLES WITH GROWING MEDIA TO OBTAIN APPROVAL UNDER THE CGMP

- 1. The exporting Plant Production Facility or broker must arrange with a Canadian importer to import the required samples in Canada. The importer must apply for and receive a Permit to Import for the samples from the CFIA. The application form for the Permit to Import must list all the plant genera and growing media sampled and indicate that the shipment contains "*samples for evaluation*". The address of the Centre for Plant Quarantine Pests (CPQP) must be included as the destination and the address of both the exporter and the importer must be included.
- 2. The exporting Plant Production Facility must randomly sample plants rooted in growing media of each plant genus to be evaluated. A sample submitted for certification assessment must include a minimum of six plants or plantings of a genus intended for export, rooted in one medium type. The medium-and-roots of the sample must provide a minimum total volume of 300 ml. Each medium/plant-genus combination intended for export must be represented by a separate sample. Exceptions to these submission requirements may be authorized by the Horticulture Section of the Plant Health Division of CFIA.
- 3. The specimens must be accompanied by an original Phytosanitary Certificate, issued within 14 days prior to shipping by the plant protection authority in the exporting country. The Phytosanitary Certificate must list all the plant genera and growing media included and must bear the declaration: *"The material was produced in conformance with the Canadian Growing Media*

"The material was produced in conformance with the Canadian Growing Media Program."

An additional declaration, indicating the name and address of the production facility, must be included on the Phytosanitary Certificate if the production facility is different from the exporter.

- 4. Clearly label each plant with its scientific name, as it appears on the accompanying Phytosanitary Certificate.
- 5. Pack the specimens, taking into account the seasonal conditions in Canada at the time of shipping (sub-zero temperatures between December April), and include a description of the growing medium in each package. The description must include the components of the medium and relative proportion of each component on a volume or weight basis (e.g., peat/perlite, 5:1, v/v).

6. The importer must inform the Plant Health Division that samples will be shipped and provide shipping details (i.e., the name of the exporter, flight no., waybill no., and shipment date) at:

Plant Health Division Canadian Food Inspection Agency 59 Camelot Drive Ottawa, Ontario K1A 0Y9 Tel. (613) 225-2342 Fax. (613) 228-6603

This will help ensure that shipments be traced to destination upon their arrival in Canada.

7. The Plant Production Facility must ship the sample to:

Centre for Plant Quarantine Pests Canadian Food Inspection Agency Ottawa Laboratory (Fallowfield) ADRI-CPQP 3851 Fallowfield Road, Building 201 OTTAWA, ONTARIO K2H 8P9 Canada

The samples should proceed directly to the CFIA / CPQP laboratory where they will be inspected. An original Phytosanitary Certificate must accompany the samples. All costs associated with importing and routing of samples for assessment will be the responsibility of the Canadian importer.

Please note that two separate Import Permits are required, one for the samples and another for any commercial shipments.

# **Appendix 2**

## SUBMISSION OF AUDIT SAMPLES FROM CONSIGNMENTS IMPORTED UNDER THE CGMP FOR CFIA INSPECTORS

- 1. Sample plants and growing media of each plant genus to be audited. A sample submitted for audit assessment must include a minimum of six plants or plantings of a genus rooted in one medium type. The medium-and-roots of the sample must provide a minimum total volume of 300 ml. Each medium/plant-genus combination must be represented by a separate sample. The plant and roots with growing medium must be submitted intact.
- 2. Enclose a Pest Identification Report (AGR 1303) listing the plant species submitted with the samples. When the Phytosanitary Certificate identifies a Plant Production Facility which is not the exporter, the name of the facility must be added on the Pest Identification Report beside the name of the exporter. This will allow, should a problem be identified with specific samples, to bring it to the attention of the National Plant Protection Organization of the country of origin.
- 3. Send samples to the:

Centre for Plant Quarantine Pests Canadian Food Inspection Agency Ottawa Laboratory (Fallowfield) ADRI-CPQP 3851 Fallowfield Road, Building 201 OTTAWA, ONTARIO K2H 8P9 Canada