Sample Preparation and Submission to the Plant Pest Diagnostics Branch Seed Science Laboratory – Seed Identification









PPDB Meadowview Facility

There are five laboratories at the Plant Pest Diagnostics Center (PPDC).

To avoid delays in identification, please be sure to submit samples to the appropriate lab.

Samples submitted to an incorrect lab will be subject to delays to determine the appropriate lab for sample analysis.



Botany



Plant Pathology



Entomology





Seed Science

Seeds and Fruits for Identification

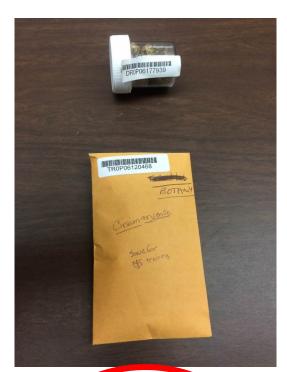
- Please send as many seeds/fruits as possible as well as any other plant parts that may be available.
- Please handle seeds with care, trying not to damage or crush the samples when collecting or processing specimens.
- Don't cram and jam specimens into tiny containers. Use a container of appropriate size. Specimens damaged in transit will be difficult to identify, and delay the identification.





Sample Preparation and Submission

- <u>Do not</u> wrap seeds in wet paper towels!
- If the sample is moist, wrap it in a dry paper towel and then place it in a container.
- <u>Do not</u> put seeds in alcohol for shipment!
- To prevent seeds/fruits from getting crushed during shipment.
 - Place seeds in a paper envelope, plastic vial, or plastic bag (please avoid using glass vials).
 - Pack in a box with padding or use a padded envelope with extra padding for mailing to the lab.
 - <u>Do not</u> send specimens in an unpadded envelope.





What Form to Use for Sample Submission

For seed identification samples from private collectors, researchers, and other seed labs:

- Use the Seed Laboratory Service Sample Request Form (68-010) to clearly state the types of tests requested.
- This form is available from the CDFA website.

For seed identification samples related to Phytosanitary Certification of commodities for export (other than seed lots):

- Use the CDFA Pest and Damage Record (PDR) Form (65-020). This form must be submitted with the sample if the results are to be sent to the county that will issue the phyto certificate.
- Use program code QPHYT

The following slides will describe how to fill out these forms for each type of sample.

Note: For regulatory related seed identification submissions (from counties and border stations for programs other than QPHYT), please use the CDFA Pest and Damage Record (PDR) Form (65-020).

Form 68-010 Important Information

Applicant/Billing Address
Contact Person
Email and/or Phone Number

Sample information:

Please include a unique identifying name or number on each specimen and include the origin of the seed/fruit submitted for identification (name of state or foreign country where grown) under the miscellaneous information box.

Check the box for:

Seed Identification – Morphological or Seed Identification – Molecular

Note: if the specimens are from different origins, please use separate submission forms.

SEED LABORATORY SERVICE SAMPLE REQUEST

68-010 (Rev. 10-2016)

APPLICANT: (please print)	MAIL RESULTS TO: (if different than applicant)
Company:	Company:
Mailing/Billing Address:	Mailing Address:
Contact Person:	Contact Person:
Phone Number:	Phone Number:
Email Address:	Email Address:

SAMPLEIDENTIFICATION: This information will appear on the report of analysis (please print)

Kind of Seed:	Variety Name:
Lot Number:	Seed Count:
Lot Size:	Treatment Name(s):
Miscellaneous:	Miscellaneous:

SAMPLER: This information will appear on the report of analysis (please print)

CHECK TESTS DESIRED: (check as many as needed)

CITED TO DESITED (CITED STATES)				
Purity Analysis	Germination Test			
California Noxious Weed Seed Exam	Tetrazolium Viability Test			
All States & Federal Noxious Weed Seed Exam	Seed Moisture Test			
Federal Noxious Weed Seed Exam	Ryegrass Fluorescence Test			
Foreign Noxious Weed Seed Exam - list country:	X-ray Analysis			
Undesirable Grass Seed (UGS)	Seed Vigor Test – list test type:			
Canadian Noxious Weed Seed Exam	Seed Identification - morphological			
Bulk Exam for Seeds of Other Plant Species (AOSA)	Seed Identification - molecular			
Other Seeds by Number Determination (ISTA)	Digital Image <u>Photomicroscopy</u>			
Scieratia check	Livestock Feed Exam			
Soil Check	Bird Seed Exam			
Dodder (Cuscuta) Check (500 gram)	Jbastoo, Gradient Germ - list type below			
Osphanche/Striga Check				
Clean-out Test	Other - please list			

TESTING METHODS REQUESTED: (check one)

AOSA (Association of Official Seed Analysts – Rules for Testing Seeds)	
FSA (Federal Seed Act Regulations)	
ISTA (International Seed Testing Association – Rules for Seed Testing)	
CFIA M&P (Canadian Methods and Procedures for Testing Seed)	

SUBMIT SAMPLETO:

California Department of Food & Agriculture Plant Pest Diagnostics Center – Seed Laboratory 3294 Meadowview Road Sacramento, California 95832-1448

Phone: (916) 262-1100 FAX (916)262-1190

What Form to Use for Sample Submission PDR Form (65-020)

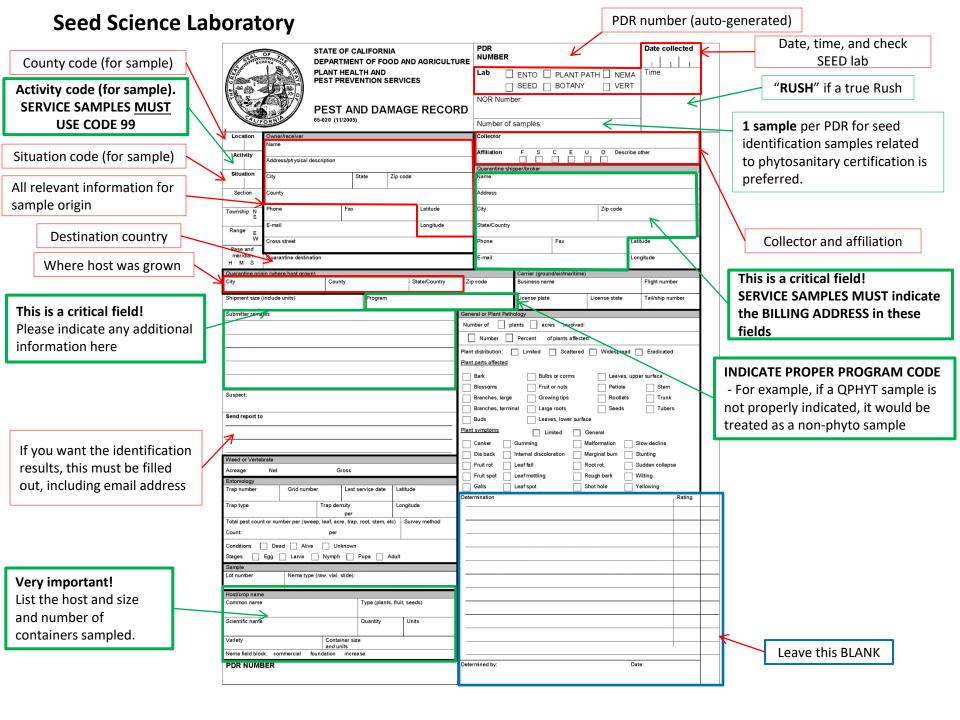
- Please use the PDR form only for seed identification samples for phytosanitary certification of commodities other than seed. Examples include weed seeds found on table grapes or other fresh fruit for export.
- The following PDR example form will walk you through the relevant fields that should be included when completing a PDR form for a seed identification sample submission to the Seed Science Laboratory.
- Properly completed PDR forms are essential to providing you with the accurate and timely service you need.
- Please be sure to provide us with the appropriate contact information for where to send the invoice for services rendered.

Sample Submission to PPDC – PDR Basics

- Enter PDR information electronically into all relevant fields as indicated on the next slide. In particular, please fill out all fields marked in red and green.
- Attach a PDR bar code sticker to the sample container and submit a PDR hard copy with the seed sample.
- Provide any additional information in the submitter's remarks section. This should include the country of destination.



- For Service Samples, ALWAYS indicate "Service Sample (99)" for the Activity Code.
- For Service Samples, ALWAYS fill in the Billing Address in the fields for "Quarantine shipper/broker"



Where to Send Specimens

Since there are five laboratories at the PPDC, please include the laboratory name in the address so that your package is directed to the correct laboratory.



PPDB Designated Lab Contact List

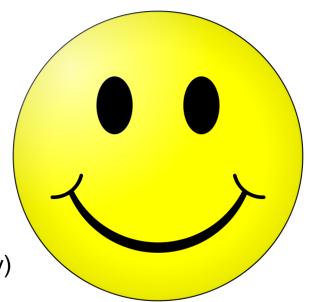
Seed Science Laboratory

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