

## **BGRI Stem Rust Sample Protocol – Samples for North America**

### **IMPORTANT:**

- **SAMPLES CAN BE SENT ONLY IF IN POSSESSION OF A VALID IMPORT PERMIT.**
- **SAMPLES CAN BE SENT TO DR. TOM FETCH AT AGRIFOOD CANADA ONLY DURING THE PERIOD OCT-FEB.**

### **Obtaining an Import Permit:**

1. Contact Drs Fetch (tfetch@AGR.GC.CA), Park (r.park@usyd.edu.au) and Nazari (K.Nazari@cgiar.org) well in advance if you intend to send samples, and notify that you either have or will have samples to be dispatched
2. You will then be notified if shipment to North America is permissible. Dr Fetch will apply for an import permit to allow him to receive the samples. This normally takes 3-4 weeks for approval and it is vital that you do not send any samples until this permit has been received.
3. Once Dr. Fetch gets the permit, he will FAX or email a PDF file to the person shipping the culture. The permit is good for one year.

### **1. Sample Collection:**

1. In field. Collect 4-5 infected stem samples from between nodes. Remove core stem tissue. Store in paper envelope (NO PLASTIC) under ambient conditions.
2. Record following details on sample envelope:
  - Sample Code: Recommended format is CCCYYNN, where CCC is ISO country code, YY is the year, NN is the sample number [Example: IRN1001 – Iran 2010 sample 1]
  - Date of collection
  - Name of Collector
  - Crop: Bread wheat, durum wheat, triticale, barley etc
  - Location Name:
  - Latitude: From GPS
  - Longitude: From GPS
  - Cultivar:
3. Within 1-2 days from collection, samples should be dried overnight at room temperature, then placed into cryovials.
4. Enclose the infected stem tissue of the isolate in the cryovial containing silica gel. Label the sample tube in the following way (NB: use BOTH labelling steps):
  - (i) Using an indelible marker write the sample code and date directly on the cryovial
  - (ii) Fill in a Sample Label – cut out, either enclose this inside the cryovial or tape it onto the outside of the cryovial
5. Tighten the cap securely, and if possible seal with Parafilm or masking tape. Put all cryovials into a sturdy box and enclose a copy of the import permit. Tape the box securely so to reduce the chance of damage. Affix another copy of the permit on the outside of the box and the address labels for shipment.
6. Ship the box to Dr. Fetch at the address on the permit (AAFC, Winnipeg) using a courier such as Federal Express or DHL. Do not use common post service. Contact Drs Fetch, Park, or Nazari if you have questions on shipping.

## SAMPLE LABELS

Sample Code	
Date	
Collector	
Location	
Latitude	
Longitude	
Crop	
Cultivar	

Sample Code	
Date	
Collector	
Location	
Latitude	
Longitude	
Crop	
Cultivar	

Sample Code	
Date	
Collector	
Location	
Latitude	
Longitude	
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