Instructions for Sample Submission / Shipping - Grapevine Pathogens

Real-time PCR Research and Diagnostics Core Facility
Department of Medicine & Epidemiology
School of Veterinary Medicine
3110 Tupper Hall
University of California, Davis
Davis, CA 95616
Phone: 530.752.7991
Fax: 530.754.6862
Website: http://www.vetmed.ucdavis.edu/vme/tagmanservice/

Initial Project Setup:
1. First time users need to e-mail a request to initiate a service agreement to Cathy Inta (cmross@ucdavis.edu) & Tammi Olineka (tlolineka@ucdavis.edu).
2. Submit the completed submission form (page 3) to Cathy Inta (cmross@ucdavis.edu) & Tammi Olineka (tlolineka@ucdavis.edu) via e-mail or FAX (530-754-6862).
3. Submit the following (once a service agreement is in place):
   - Exhibit 13A Form
   - Completed submission form or Excel format Sample Submission form (10+ samples)
   - Email large submission form to Cathy Inta (cmross@ucdavis.edu)

Sample Collection:
Grapevine Pathogens (Panel A) starting October 1st
1. Submit six 10 inch cane cuttings at least 1cm in diameter per mature grapevine (defined as one sample)
   - Remove petioles (if desired) by pulling from the leaf and being cautious not to touch the sap
2. Wrap cuttings in a moist paper towel and place in a *clearly* labeled ziploc bag
3. Store samples at 4°C until shipped. When collecting samples in the field, place them in a cooler with covered icepacks. Do not place samples directly on ice.

Grapevine Nepoviruses (Panel B) from early spring through June
1. Submit 6-12 petioles per grapevine
   - Remove petioles by pulling from the leaf - DO NOT CUT OR REMOVE LEAVES
   - Do not touch sap at the end of the petiole.
2. Wrap petioles in a moist paper towel and place in a *clearly* labeled ziploc bag
3. Store samples at 4°C until shipped. When collecting samples in the field, place them in a cooler with covered icepacks. Do not place samples directly on ice.

*Xylella fastidiosa can be added to either panel A or panel B

Packing/Shipping Instructions:
1. Samples should be in a *clearly* labeled ziploc bag.
2. Include a completed Sample Submission Form (available online or via email) with each shipment.
3. Samples should be shipped in a rigid container (i.e. cardboard or styrofoam box).
4. Include ice packs covered with absorbant material to absorb condensation and protect samples.
5. **Ship overnight** (the laboratory is open Monday-Friday) via FedEx or other express courier. Do **NOT** use USPS as all packages are held at a central campus distribution center.

Shipping Address:
Real-time PCR Research and Diagnostics Core Facility
VM: Medicine & Epidemiology
3110 Tupper Hall
University of California, Davis
One Shields Ave
Davis, CA 95616
Updated 1.23.12
Receipt and Inspection of Samples:
All samples will be inspected, labeled and stored upon receipt. Customers will be notified of any samples received in unsatisfactory condition and arrangements can be made to have replacements delivered. All testing will be completed by qualified technicians utilizing all relevant quality controls. The customers will receive an excel file of all results via e-mail or by FAX (whichever is preferred by the client).

Turn-Around Time:
The turn-around time is approximately 5 business days for cuttings from 16 different grapevines from the date consent is received from Yolo County to proceed with processing the samples. Please e-mail or call Tammi Olineka (tolineka@ucdavis.edu: 530-752-7991) to inquire about turn-around time information for your specific project; especially for projects with more than 16 grapevines.

Disclaimer:
RT-qPCR is a very sensitive and specific method for detection of pathogens associated with grapevine diseases. It is important to highlight that there may be other agents that produce the same disease symptoms that are not included in the offered panels. Also, it is possible for a plant to test RT-qPCR negative for a certain pathogen but still be infected by that pathogen at a very low load especially if the distribution of the particular pathogen in the plant is uneven. Sample condition may also affect the downstream applications. Sample condition and collection is the sole responsibility of the client.

Real-time PCR Panels - Grapevine Pathogens

<table>
<thead>
<tr>
<th>Test</th>
<th>Price</th>
<th>Panels</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel A</td>
<td>$340.00</td>
<td>Grapevine leafroll associated virus 1, Grapevine leafroll associated virus 2, Grapevine leafroll associated virus 2 Red Globe, Grapevine leafroll associated virus 3, Grapevine leafroll associated virus 4, Grapevine leafroll associated virus 5, Grapevine leafroll associated virus 7, Grapevine leafroll associated virus 9, Grapevine leafroll associated virus 10, Grapevine leafroll associated virus Carnelian strain, Grapevine rupestris stemplitting associated virus, Grapevine virus A, Grapevine virus B, Grapevine virus D, Grapevine fleck virus.</td>
<td>Cambium</td>
</tr>
<tr>
<td>Panel B</td>
<td>$200.00</td>
<td>Tobacco ringspot virus, Tomato ringspot virus, Grapevine fanleaf virus</td>
<td>Petiole</td>
</tr>
</tbody>
</table>

Test | Price | Additional Tests | Sample Type |
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>XF</td>
<td>$50.00</td>
<td>Xylella fastidiosa</td>
<td>Cambium/Petiole</td>
</tr>
</tbody>
</table>

Notes:
For each grapevine, three pools are qPCR analyzed (two cambium cane cuttings or a subset of two to six petioles per pool). Results are reported positive if at least one pool is positive.
Grapevine Diagnostic Submission Form

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Fax: 530.754.6862
http://www.vetmed.ucdavis.edu/vme/taqmanservice

Date: ____________________________________________

Contact Person: ___________________________________

Company: _________________________________________

Address (Billing): __________________________________

Phone: ___________________________________________

Fax: ______________________________________________

Your Federal Tax ID (FTID/FEIN - found on W9 tax form) #: ____________________________

(All first time customers must provide valid FTID #; samples can not be processed otherwise)

Field Sample ID:               Sample Type:                  Panel/Test Requested:            Comments:            
1. __________________________________________________________________________
2. __________________________________________________________________________
3. __________________________________________________________________________
4. __________________________________________________________________________
5. __________________________________________________________________________
6. __________________________________________________________________________
7. __________________________________________________________________________
8. __________________________________________________________________________
9. __________________________________________________________________________
10. __________________________________________________________________________

Please request a digital submission form for greater than 10 samples

Updated 1.23.2012