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R&D PCR Analysis Submission Form

Company Name:				Internal Use Only				
Address:				Date Received:				
City: Zip:				Received By:				
Contact Name:				Notes:				
Email:								
Phone:								
Billing Emai	l:							
Virus Multiplex Detection Assay Sampling The sampling procedure for the Virus Multiplex Detection Assay (which screens for Hop Latent Viroid, Lettuce Chlorosis Virus, and Cannabis Cryptic Virus presence) can be found on the second page of this document. Root sampling is recommended as false negatives are more likely for Hop Latent Viroid when analyzing leaf tissue sampling. Samples must be taken fresh, transported on ice, and delivered to us the same day to ensure no degradation has occured. Feel free to call with any questions you may have. Sex Detection, THCa Synthase, and CBDa Synthase Assay Sampling These assays are a bit more forgiving, so the sampling procedure is not as delicate. Bring one mature leaf for each plant you would like to analzye. Samples should be delivered to us on ice within the same day as the tissue is harvested.			Testing Prices: Virus Multiplex Assay (Hop Latent Viroid, Lettuce	\$25 per assay		Check box for each tested needed		
			Chlorosis Virus, and Cannabis Cryptic Virus) Sex Detection Assay	\$15 per assay	THCa Synthase Assay	CBDa Synthase Assay	Sex Detection Assay	Virus Multiplex Assay
			THCa Synthase Assay CBDa Synthase Assay	\$15 per assay \$15 per assay				
UID #: (Internal Use Only)	Sample Name (For volume submissions, you may write in "All Samples" rather than listing each individual sample)	(Infor	Additional Sample Information nation you would like to appear on the CoA, if any)		Υ	у	_	У
					1			

Signature:______Date:_____

Subsection C be detected, that it must be anonymously reported to NMCCD.

Rio Grande Analytics LLC will make every effort to provide accurate analysis of samples received, with liability limited to the cost of analysis. For reasonable cause, tests will be repeated. No other warranties, expressed or implied, are given. Prices subject to change without notice.

Visit www.riograndeanalytics.com for current pricing.

Sampling Procedures Taken Directly From Medicinal Genomics Website Jan. 17, 2024

https://medicinalgenomics.com/product-literature/

Plant Tissue Sampling

Some studies have shown that sampling different parts of an HLVd-infected plant will produce different results. Roots typically produce the strongest qPCR signal if a plant is infected with HLVd, and in some cases, roots have tested positive for HLVd, while leaves from the same plant tested negative.

Sampling multiple locations of the plant will result in a more comprehensive assessment of infection. As many as 3 tissue samples in a single well can be used, however, using more than 3 tissue samples (punches) in a single well can overload the assay and reduce the accuracy of the test.

Items needed for sampling:

- · 1.5mL centrifuge tubes, or something to collect samples
- Disposable gloves
- Spray bottle of 10% bleach
- Scissors
- Cup/beaker of 10% bleach solution
- · Paper towels

When at the grow location, make sure to clearly label the plants you are sampling from, and the containers for the samples. It is very important that samples are clearly and properly labeled.

Sterilize hands and tools between samples

- · Soak trimming tool in 10% bleach solution for 60 seconds
- . Spray 10% bleach solution onto any tool parts that were not submerged in bleach solution
- Pro Tip: Put on two pairs of gloves and change the outer set between plants or spray your hands with 10% bleach solution in between each sample.

Root Sampling

1. Lightly brush the topsoil of the plant to reveal surface root.



- 2. Pull gently on the root to break it away from the root mass.
- 3. Only a small amount of root tissue is needed (~5 10 cm).
- 4. For soilless media, use sterile scissors to cut small pieces of exposed root tissue.
- Place root tissue on a clean paper towel or directly into a sample tube after brushing off excess growing medium.