NEW NEXTGEN SAMPLING PROTOCOL FOR EXTRACTION (INTERTEK)

The very first thing to do is to email Intertek (copied to Prof. Egesi and Jean Luc) to inform them of your interest in sending some leaf discs to them for extraction.

MATERIALS NEEDED FOR SAMPLING

1. Handheld barcode scanner
2. Coordinate App in your Android device
3. Perforator (*for punching leaf*)
4. Forceps
5. 96-well plate and cover(specific for this purpose)
6. Parafilm
7. Ice packs *(in a container*)
8. Handgloves
9. Masking tape(*to label plates)*
10. Permanent marker
11. Paper towel
12. -80oC freezer
13. Freeze drier

SAMPLING PROCEDURE

* Label your 96-well plates accordingly
* Make sure your plants are well barcoded
* Put on your Android device and your handheld barcode scanner. Connect or Pair them together through Bluetooth.
* Open the Coordinate App and create template on your device and scan each plant’s barcode, the cursor automatically goes on to the next well.
* With your hand gloves on, collect some leaves from the apex of the plant, punch 6mm each of 2 leaf discs(according to Intertek requirement).
* With the forceps, collect the leaf discs and place inside the corresponding position in the 96-well plate which is preserved inside the ice box.
* After sampling, cover the 96-well plate with parafilm and store on ice.
* Export your coordinate file from the grid to your device before continuing with the next plate.
* On getting to the laboratory, gently perforate the parafilm using a pipette tip and store the plate in -80oC freezer overnight to get it frozen and ready for freeze drying.
* Place the plate in the freeze drier and dry for about 72 hours (*until samples are fully dried)*
* The samples can be stored in -80oC freezer prior to shipment to Intertek and maybe dried for about 2 hours before shipment when all logistics and requirements for shipment have been met.
* The plates should also be barcoded for tracking though cassavabase before shipment.

DATABASE UPLOAD

From your device, export /transfer your coordinate exported file from your device to your computer and upload to cassavabase through your genotyping plates, add/upload genotyping plate and submit.

Intertek will require a spreadsheet generated through cassavabase and a form which they will send to you to complete and return to them through email. (*Always keep in touch*)

As soon as all requirements are met, Intertek will send you a contact address to which the shipment should be made.