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| **International Institute of Tropical Agriculture**  Standard Operating Procedure  (NextGen Cassava) | |
| **Title:**  DMC assessment oven-drying | **Version:** 1 |
| **Author:** | **Date reviewed:** |
| **Date Implemented:** 7-June-2021 | **Reviewed by:** |

1. All the storage roots of the selected plots are harvested in the field
2. The harvested storage roots from each plot are kept in a sampling bag, which is properly labeled
3. The bags are transported to the laboratory
4. Six healthy roots of different size (small, middle, big) are selected for each plot to ensure roots homogeneity. Rotted, diseased or bruised roots should not be selected.
5. The selected roots for each plot are processed separately (peeled, wash with clean water, and dry with paper towel)
6. The proximal and distal part of the roots are removed
7. A hand grater I used to grate the top, middle, and bottom sides of each of the selected roots. Ensure that rotted, stalks, and fibrous roots are not used.
8. The grind cassava roots are thoroughly mixed
9. 100g of grated samples is placed on a silver laminated paper plate, weighted beforehand.
10. Each accession should be assessed in three replicates.
11. Oven-dry the samples for 48h at 104°C
12. Reweigh the samples
13. The dry matter is expressed as the percentage of dry weight relative to fresh weight