**To ship DNA samples to the Genotyping Center at Raleigh, NC:**

1. DNA should be shipped in 96-well microtiter plates (not strip tubes) that are sealed with a good quality sealing foil (i.e. Qiagen or MJ research or other brand).
2. Plates should be clearly labeled with the plate name (BreedercodeYrPlateNumber) by writing directly on the foil with a sharpie.
3. Include 50-100ul of DNA at concentration of 10-30ng/ul in either 0.1X Te buffer indicated below or sterile ddH20. Indicate DNA concentration on the plate.
4. Always include parents or other controls in the *first column* of the plate.
5. Send email with materials list to gina.brown-guedira@ars.usda.gov prior to shipping samples.
6. Samples may be shipped in styrofoam boxes on dry ice, freezer ice packs, or regular ice if samples are contained in ziplock bags.

 ***Dr.*** ***Gina Brown-Guedira***

 ***USDA/ARS, NCSU-Crop Science***

 ***4118 Williams Hall***

 ***100 Derieux Place***

 ***Raleigh, NC 27695***

 ***Phone: (919) 513-7926***

Please ship samples on a Monday or Tuesday so they don’t arrive on the weekend when the building is closed.

|  |  |
| --- | --- |
| **1X TE = final concentrations of 10mM Tris & 1mM EDTA** |  |
|  |  |  |
|  | **for 1L 1X TE** | **for 0.5L 1X TE** |
| 1000ml x 10mM(0.01M)/1M Tris | 10ml 1M Tris | 5ml 1M Tris |
| 1000ml x 1mM(0.001M)/0.5M EDTA | 2ml 0.5M EDTA | 1ml 0.5M EDTA |
|   | 988ml ddH2O | 494ml ddH2O |
|  |  |  |
|  | **for 1L 0.1X TE** | **for 0.5L 1X TE** |
| 1000ml x 1mM(0.001M)/1M Tris | 1ml 1M Tris | 500μl 1M Tris |
| 1000ml x 0.1mM(0.0001M)/0.5M EDTA | 0.2ml 0.5M EDTA | 100μl 0.5M EDTA |
|   | 998.8ml ddH2O | 499.4ml ddH2O |