



DNA Submission Instructions for Microarray or STR Analysis

- Notify the WiCell Cytogenetics lab that you will be shipping gDNA for testing (characterization@wicell.org) at least 24 hours in advance
- Complete one Characterization Testing Request form for each sample and send form(s) with the gDNA.
- WiCell Cytogenetics recommends Qiagen's DNeasy DNA Purification Kit with incorporation of RNase A treatment for isolation of high-quality gDNA from live cells.
- Label the sample tubes with your company/institution name, sample identifier (such as cell line and passage), date of extraction, and concentration
- **gDNA Requirements for STR Analysis**
 - UV absorbance must fall within the following range
 - $A_{260/280} \geq 1.5$
 - Submit 1-3ug at a concentration of 100-250ug/ml in a 1.5ml screw-top centrifuge tube
- **gDNA Requirements for Microarray (SNP-based) Analysis**
 - Genomic DNA must be RNase treated
 - UV absorbance ratios must fall within the following ranges
 - $A_{260/280} \geq 1.8$
 - $A_{260/230} \geq 2.0$
 - Please include UV absorbance ratios in your email to cytogenetics
 - Run an agarose gel to verify presence of DNA and no RNA contamination
 - Submitted volume must be at least 15ul
 - Concentration must be between 50-75ng/ul if measured by Qubit, or 100-150ng/ul if measured by Nanodrop
- **gDNA Requirements for Microarray and STR Analysis**
 - If Microarray and STR analysis is to be performed on the same DNA sample, UV absorbance ratios must meet the Microarray requirements
 - Submit ≥ 8 ug at a concentration of 100-250ug/ml in a 1.5ml screw-top centrifuge tube

gDNA Shipping Instructions

- Place the 1.5ml tube(s) within a 15ml conical tube and pack securely in a Styrofoam box with absorbent material to keep the tube(s) from moving and to provide insulation
- For international submissions, we recommend that you include a temperature monitoring system in your shipment.
- Deliveries are accepted Monday through Friday from 8:00am to 4:00pm (**Please DO NOT ship First overnight**).
- Place Styrofoam box in a cardboard box, label, and ship **OVERNIGHT** or **INTERNATIONAL PRIORITY** to:

WiCell Cytogenetics Lab
504 S Rosa Rd, Ste. #101
Madison, WI 53719

Shipping materials are available upon request

Please contact us at (608) 316-4145 or email characterization@wicell.org with any questions.