



## DNA Submission Instructions for Cytogenetic Testing

- Notify the WiCell Cytogenetics lab that you will be shipping gDNA for testing ([cytogenetics@wicell.org](mailto:cytogenetics@wicell.org)) at least 24 hours in advance
- Complete one submission form for each sample and send form(s) with the gDNA, click here for the [Cytogenetic testing form](#).
- 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  $\geq 8\mu\text{g}$  at a concentration of 100-250ug/ml in a 1.5ml screw-top centrifuge tube

### **gDNA Shipping Instructions for Microarray or STR Analysis**

- 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
- Include ice packs or dry ice as extra insulation and to keep cool or frozen during shipping
- Place the Styrofoam box in a cardboard box, label, and ship **PRIORITY OVERNIGHT OR STANDARD OVERNIGHT** to:

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

**\*\*Please do not send packages FIRST OVERNIGHT\*\***

Please don't hesitate to call (608) 316-4145 or email [cytogenetics@wicell.org](mailto:cytogenetics@wicell.org) with any questions!

Thanks,  
The WiCell Cytogenetics Team

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