

# Sample Submission Guidelines: RAD Library Preparation and Sequencing

## Multiplex Library Preparation



### DNA Sample Requirements

---

Samples from each individual to be sequenced must contain at least 3 $\mu$ g of high molecular weight (>50kb) DNA at a concentration >30ng/ $\mu$ L.

To help assure that your samples will be ready to process as soon as they arrive at our facility, we ask that you visualize your samples on an agarose gel to check for degradation and contaminating nucleic acids (e.g. RNA, bacterial DNA, plastid DNA).

**Please send an electronic copy of your gel image to [samples@floragenex.com](mailto:samples@floragenex.com) for quality approval before you ship your samples.**

### Sample Submission Instructions

---

For projects with more than 24 samples, DNAs should be shipped in 96-well plate format.

Sample submission manifests are available for download at [www.floragenex.com/contactus/forms](http://www.floragenex.com/contactus/forms). Completed forms should be sent as attachments via email mail to [samples@floragenex.com](mailto:samples@floragenex.com) with the complete name and institution of the investigator in the subject line.

Samples should be sent via express courier (UPS, FedEx, DHL) on cold pack or dry ice to the following address:

Attn: Sample Submission  
Floragenex, Inc.  
2828 SW Corbett Ave, Suite 211H  
Portland, OR 97201

Upon shipment, please send a notification email to [samples@floragenex.com](mailto:samples@floragenex.com). Please include a shipment tracking number if available.

Samples will be inventoried upon arrival and you will be notified of successful receipt via email. Thank you for your attention to detail in sample preparation and shipment.

Sample Submission Checklist
<ul style="list-style-type: none"><li><input type="checkbox"/> Concentrations have been measured for each sample and entered into the submission form</li><li><input type="checkbox"/> Each sample contains at least 3<math>\mu</math>g of clean DNA</li><li><input type="checkbox"/> Agarose gel image has been sent to <a href="mailto:samples@floragenex.com">samples@floragenex.com</a> and sample quality has been approved by Floragenex/Biota staff</li><li><input type="checkbox"/> Submission form sent as an email attachment to <a href="mailto:samples@floragenex.com">samples@floragenex.com</a></li></ul>



### Recommended DNA Extraction Method: Qiagen DNeasy Blood & Tissue and DNeasy Plant kits

We have observed that genomic DNAs prepared using these kits routinely generate high quality RAD libraries and sequence data. Clean, quality DNA sample inputs are critical to the success of the RAD procedure; please consider this if you plan to use a different type of kit or homemade protocol.

### A note on Quantitation methods

Because DNA quantitation determined using spectrophotometry (e.g. OD260) can vary between labs and is sensitive to DNA purity, we recommend that DNA concentration be assessed by fluorometry if possible, e.g. using the Qubit Quant iT Assay system (Invitrogen).