

Sample Submission Guidelines: RAD Library Preparation and Sequencing

Single Sample Preparation



DNA Sample Requirements

Samples from each individual or bulk of individuals to be sequenced must contain at least 4ug of high molecular weight (>50kb) DNA at a concentration >30ng/uL.

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 for quality approval before you ship your samples.

Sample Submission Instructions

Sample submission forms are available for download at www.floragenex.com/contactus/forms. Completed forms should be sent as attachments via email to 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 Lab
2828 SW Corbett Ave, Suite 211H
Portland, OR 97201

Upon shipment, please send a notification email to 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"><input type="checkbox"/> Concentrations have been measured for each sample and entered into the submission form<input type="checkbox"/> Each sample contains at least 4ug of clean genomic DNA<input type="checkbox"/> Agarose gel image has been sent to samples@floragenex.com and sample quality has been approved by Floragenex/Biota staff<input type="checkbox"/> Submission form sent as an email attachment to samples@floragenex.com

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 depends on DNA purity, we recommend that DNA concentration be assessed by fluorometry if possible, e.g. using the Qubit Quant iT Assay system (Invitrogen).