

Sample Preparation & Shipping Instructions

Sample Description Form: A completed Sample Description Form must be included with every sample shipped to the 454 Sequencing Center.

DNA Quality: DNA should be purified by column or gel purification protocols. Samples providing A_{260}/A_{280} of ~ 1.8 normally provide optimal results. A number of commercially available kits will yield DNA of sufficient quality and purity for sequencing. One μL of each DNA sample should be subjected to electrophoresis on a 2% agarose gel to evaluate for concentration and quality. A hardcopy image of the EtBr-stained gel should be included with the sample(s). Please include a 1 kb ladder as a reference and clearly identify the contents of each lane.

DNA Quantity: For genomic sequencing projects, 5 μg of DNA provided at a concentration of ≥ 500 ng/ μL is sufficient. For other sample types please contact a 454 Life Sciences representative for input DNA requirements.

Sample Submissions:

Samples can be provided in water or TE buffer at a volume of ~ 10 μL . Individual samples should be provided in a 1.5 mL microfuge tube labeled with a barcode (Figure 1) supplied by 454 Life Sciences. Place barcode lengthwise on the surface of a dry, room temperature microfuge tube as shown in Figure 1.



Figure 1. Required barcode label application to microfuge tube that contains DNA sample.

Packaging of Samples:

Up to six barcoded 1.5 mL sample tubes should be placed into a 50 mL disposable screw-top centrifuge tube for shipping. We recommend sealing caps on individual microfuge tubes with parafilm. To prevent the sample tubes from moving during shipping, please pack the tubes with a paper towel/tissue paper as shown in Figure 2. Label the large tube with Billing information and PO#.



Figure 2. Preparation of microfuge sample tubes for shipping. Place up to six tubes inside of a 50 mL centrifuge tube. Secure the microfuge sample tubes by packing the tube with a paper towel or tissue paper.

Shipping:

Samples should be frozen and shipped on dry ice. We recommend placing the 50 mL tube(s) inside of a plastic bag prior to placing on dry ice. Samples should be shipped via an express (next day) shipping carrier to:

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