Metabarcoding sample preparation guidelines

General requirements

IGATech offers nucleic acids extraction service and we can set up a dedicated extraction workflow for your specific substrate. Please enquire.

For sample number <12, send samples in Eppendof tubes sealed with parafilm (***0,5 mL and 0.2 mL tubes as well as strips will be not accepted***). The tubes must have, on the vial top, a clear and permanent sign (or a thin label) with a progressive number of the mailed samples and the customer's name (at least the initials).
For sample number above 12 it is mandatory to send samples in a skirted 96-wells plate associated with Sample spread sheet containing information on sample names and sample position. Send DNA samples in a cold pack (e.g. Blue ice) or dry ice. Do not ship plates without secondary containment as these may crack when placed directly on dry ice.
Please, do not forget to send us compiled **Samples Spreadsheet** and the **Customer registration form**, together with shipped samples as well as via e-mail.

DNA for custom/barcoding amplicons

We suggest sending 200 ng of DNA at a minimum concentration of 10 ng/µL.
Mail DNA samples resuspended in water or 10mM Tris-HCl pH 8.5.
Sample acceptance is based on the amount and concentration measured by us at QBit fluorimeter. As we understand some substrates make hard to obtain high yields of DNA, we also accept sample below the recommended quantity. However, it's recommended, when possible, that customer run a test PCR (please inquire) to ensure that the sample are reaction-permissive as dirty substrates (soil, sludge, fecal, etc.) may have PCR-inhibitor leftover which can hamper amplification reaction.

Customer is free to add extra columns to Sample Spread Sheet to include all available metadata of samples. This information will be used to run several statistical tests as well as labeling/coloring of outputs in our standard internal analysis pipelines.