Targeted-Genotyping sample preparation guidelines

Genomic DNA for targeted genotyping

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

The quality of the DNA sample can have a significant effect on the successful of the experiment. Poor quality DNA can determine the presence of duplicated (e.g. clonal) reads and consequent insufficient coverage.

Submit minimum 1 µg of DNA per sample (minimum concentration of 20 ng/µL).
Please note that fluorimetry-based quantification (*e.g.* Qubit, plate-reader) assays are more accurate methods than absorbance-based methods (*e.g.* Nanodrop) which might overestimate the quantity.
Quality of the DNA should be 260/280 > 1.8 and 260/230 >1.8.

DNA has to be resuspended in 10 mM Tris-HCl pH 8.5 (standard elution buffer of most commercial column-based extraction kits); water is accepted as an alternative (no EDTA must be present in the solution – e.g. TE buffer).
Mail DNA samples in 1.5 or 2 mL Eppendorf tubes sealed with parafilm (0.5 mL / 0.2 mL tubes will not be accepted).

If you have 24 or more samples, please put them in a 96-well skirted plate. 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).

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 the compiled **Samples Spreadsheet**, both with the shipped parcel and via e-mail. In order to be able to properly track and safeguard your samples we also ask you to send us the **Tracking Number** via e-mail.