



# Target-Seq

## Sample preparation and Shipping Guidelines

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## SERVICE CONDITIONS

*Please read carefully!*

The samples must meet the quality and quantity criteria and the shipping conditions, as indicated in the “Sample Requirements” and “Shipping” sections below. In case such specifications are not available the Customer shall enquire before sending any material. If storing and shipping conditions or sample specifications do not meet the required standards, IGA Technology Services may ask for an additional processing fee and the standard turnaround time might be delayed. Please note that the experimental setup and processing will be based on the information reported in the Sample Spreadsheet (**see Documents/Guidelines section in <https://igatechnology.com/>**). Keep in mind that absorbance-based methods (*e.g.*, Nanodrop) might largely overestimate the DNA quantity. Customer will be informed upon QC if samples are non-compliant and will decide whether to proceed or submit replacements. The proceeding with non-compliant samples absolves IGA Technology Services of liability for experiment failures (inadequate library or low sequencing due to poor sample quantity and/or quality) and allows it to charge the full-service fee.

FFPE samples must be declared during the quotation request because they have a dedicated protocol.

### **Extra processing fees**

Extra processing fee can be applied in the following cases:

- FFPE samples and/or highly degraded DNA
- Normalization

Please enquire for more information.

### **Contacts**

All requests for information about the service must only be sent via email ([dna-seq@igatechnology.com](mailto:dna-seq@igatechnology.com)) and will be dealt with within a maximum of two working days from receipt.

In case problems arise during the sample processing, the Customer will be contacted directly to agree on possible solutions. Notifications will be sent to the contact person indicated in the Sample Spreadsheet at the sample reception and delivery.

For sample return and data storage and delivery refer to general Terms and Conditions.



## SAMPLE REQUIREMENTS

Pseudonymization.

***Please refer to general Terms and Conditions.***

***If human samples are provided in the form of tissue or body fluid, please fill out the Human samples clearance form and return a signed copy.***

### DNA specification

- Concentration (measured by fluorimetry-based method):
  - o Exome-seq: 10 – 40 ng/uL
  - o Integrome and Duplex-seq: 20– 30 ng/uL (minimum 1 ug of input DNA)

Keep in mind that absorbance-based methods (*e.g.*, Nanodrop) might largely overestimate the DNA quantity. If DNA concentration has been measured using spectrophotometric methods, such as Nanodrop, we strongly recommend the customer supply us with twice the required amount.

The A260:A280 and A260:A230 ratios for DNA samples should be > 1.8. The use of DNA with lower ratios may result in low amplification yield.

- Diluent: 10mM Tris-HCl pH 8.5

Do not provide DNA with EDTA; max concentration allowed < 0.1 mM. EDTA can interfere with enzymatic reactions and result in assay failure or poor results.

- Minimum volume: 35uL
- DNA concentration across samples should be even (+/-20% of average). In case internal normalization service is waived, IGATech is not responsible for the quality of the data in terms of per-sample coverage.
- DNA must be free of contaminants: protein, RNA (RNase treatment is recommended), organic solvents (column purification after isolation is recommended) and salts.
- DNA must be of high molecular weight with little or no evidence of degradation



### Library specification

In case the Customer is sending libraries or library pools for direct sequencing, please follow the Custom libraries Illumina or Custom libraries Element Bioscience sample preparation guidelines and shipping.

### SHIPPING

**For batches of <=24 samples**, 1.5 mL or 2 mL tubes can be accepted. They must be sealed with parafilm. The tubes must have on the vial top, a clear and permanent sign (or a thin label) with a **progressive number** corresponding to information specified in the Sample Spreadsheet.

**For batches of >24 samples**, samples are only accepted in 96-well plate, sealed with adhesive/heat-sealed aluminum foil or multiwell strip caps. Each plate must be labeled with a plate identifier indicated on the Sample Spreadsheet.

**IMPORTANT!!! The 0,5 mL and 0.2 mL tubes as well as strips are not accepted !.**

For more details, please follow “Shipping and Packaging Guidelines” PDF file available at <https://igatechnology.com/igatech/documents/>

It is **MANDATORY to send us the compiled Sample Spreadsheet**, both with the shipped parcel and via e-mail. To properly track and safeguard your samples, send us the Tracking Number via e-mail (see Contacts).

**Shipping Address:**  
IGA Technology Services srl  
via Jacopo Linussio 51  
33100 Udine Z.I.U.  
Italy