

## Sample requirements for Whole Exome Sequencing (WES) and Targeted sequencing services

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**Title: Sample requirements for whole exome sequencing (WES) and targeted sequencing services.**

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Sample Type	Recommended Quantity	TAT (upon collection)	Shipment Conditions	Other recommendations
Whole Blood	2ml in EDTA Vacutainers	To reach the lab within 3 days or asap.	Room temperature/ * Ice packs	For Genepower Total, condition specific testing services.
FFPE Tissue	>10 mg / per block	Within 3 days	Room temperature/ * Ice packs	For OncoRx services
Fresh frozen tissue	>10 mg in Normal Saline	Within 48 hours to 3 days	* Ice packs/Room temperature	For OncoRx services
cfDNA  (Blood in Streck tubes or PAXgene tubes)	20 ml  (10 ml + 10 ml)  2 Tubes	Within 5 days	* Ice packs/Room temperature (14°C - 28°C)	For OncoRx services
**Buccal swabs	4 swabs in 2 sterile container/s.	Within 3 days	Ice packs	For Genepower Total, condition specific testing services.  -Rinse the mouth with clean water before sample collection.  -After collecting the cells from the buccal cavity (for atleast 30 secs per swab) it is important to dry the swab on a sterile surface for 5 minutes before dropping the swab into the vial.
Genomic DNA	250-500ng.  >25 ng/μl(15ul).  Sample Purity (OD260/280):  1.8-2.0, RNA-free	Within 3 to 5 days	* Ice packs/Room temperature	For Genepower Total, condition specific testing and OncoRx services.  DNA should be dissolved in nuclease free water only and tube is to be sealed with parafilm to prevent evaporation.

\* It is **mandatory** to send the samples in Ice packs in summers or when the shipping temperature is > 28°C. It is **preferable** to send sample in Ice packs to minimize DNA damage.

\*\*Buccal swabs are accepted only when whole blood is unavailable.

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**Documentation and Sample Shipment Requirement**

- It is mandatory to include the test requisition form and consent form along with the sample.
- Clear details of the patient's full name, age, gender and collection date on the blood collection tube is very important. Failure to include this information may result in a delay of sample processing
- The sample is to be carefully wrapped in a small bubble wrap envelope, placed between the ice packs and shipped in a carton.
- Sample in damaged condition cannot be accepted.