Novogene

Advancing Genomics, Improving Life

Novogene Extraction Service Guidelines

Sample requirements for DNA extraction:

Sample Source	Standard Amount	Special Amount for Several Products	Buffer/Status	Recommended Shipping Method	Notes
Cell pellet	⩾5 M	–	Snap frozen	Dry ice	–
Whole blood	⩾1 mL	⩾2 mL for RRBS	Blood collection tube with EDTA as anticoagulant	Dry ice	1. Every tube should be individually packaged with sufficient dry ice. 2. All tubes should be separated. 3. Any damage or liquid overflow should not be allowed. 4. Seal the tubes well to avoid leakage due to tube damage. 5. Prepare for vibration-absorption.
Fresh animal tissue	⩾400 mg	–	Snap frozen	Dry ice	–
Fresh plant tissue	⩾400 mg	–	Snap frozen	Dry ice	–
FFPE slides (for human WGS/ WES/ TRS projects only)	⩾10 slides	–	–	Room temperature/ Blue ice	Thickness: 5~10 um; Area: >1 cm^2
Paraffin tissue block (for human WGS/ WES/ TRS projects only)	⩾3 blocks	–	–	Room temperature/ Blue ice	–
Saliva (for human/animal projects only)	⩾4 mL	–	Snap frozen	Dry ice	Collected in 10 mL cryogenic storage tube
Buccal Swab (for human/animal projects only)	⩾3 swaps	–	–	Dry ice	Package in buccal swab collection boxes, do not expose to air to avoid contamination. Use plastic containers instead of glass containers to prevent damage caused by glass containers.
Serum/Plasma (for human WGS/ WES/ TRS projects only)	⩾4 mL	–	Snap frozen	Dry ice	–
Stool (for Metagenomics projects only)	⩾1 g	–	Snap frozen	Dry ice	–
Bacterial/fungal solution or precipitation (for microbial WGS and Metagenomics projects only)	⩾7 M(cells) or ⩾4 mL	–	Snap frozen	Dry ice	–
Fungal hyphae (for microbial WGS projects only)	⩾0.5 g	–	Snap frozen	Dry ice	–

Sample requirements for RNA extraction:

Sample Source	Standard Amount	Special Amount for Several Products	Buffer/Status	Recommended Shipping Method	Notes
Cell pellet	⩾5 M	⩾10 M for sRNA-seq/ circRNA-seq; ⩾20 M for WTS	Snap frozen	Dry ice	–
Whole blood	⩾5 mL	⩾8 mL for sRNA-seq/ circRNA-seq; ⩾10 mL for WTS	PAXgene Blood Tubes	Dry ice	1. Every tube should be individually packaged with sufficient dry ice. 2. All tubes should be separated. 3. Any damage or liquid overflow should not be allowed. 4. Seal the tubes well to avoid leakage due to tube damage. 5. Prepare for vibration-absorption.
Fresh animal tissue	⩾300 mg	⩾500 mg for sRNA-seq/ circRNA-seq; ⩾800 mg for WTS	Snap frozen	Dry ice	–
Fresh plant tissue	⩾500 mg	⩾800 mg for sRNA-seq/ circRNA-seq; ⩾1 g for WTS	Snap frozen	Dry ice	–
Stool (for Metatranscriptome projects only)	⩾500 mg	–	Snap frozen	Dry ice	–
Bacterial/fungal solution or precipitation (for Prokaryotic RNA & Metatranscriptome projects only)	⩾7 M(cells) or ⩾4 mL	–	Snap frozen	Dry ice	–

Notes

1. If weight is known, preferably client can provide weight as well on SIF.
2. Preferably samples come in 2 mL centrifuge tube. Animal tissue must come in on dry ice (-80°C). Plant tissue is preferred to also come in on dry ice.
3. Type/location/source of sample must be known and indicated. Example, mouse kidney tissue or buccal swab.
4. For plant samples, client will need to indicate which part of the plant tissue they will want extraction from if they provide the whole plant. Example, root or shoot? Only necessary if the client provides both.
5. Client will need to indicate if it is okay to use the whole tissue sample provided and if not what they would like done with the left-over tissue, we will not provide long term storage and would prefer to ship back to client if they do not want all the tissue to be used.
6. If possible, please note if sample contains high polysaccharide and/or high lipid content or not.
7. Client will need to provide if sample is in stabilizing solution and which kind.
8. All tissues must not contain any pathogenic agents that could cause severe illness or hazards to Novogene staff handling the samples. Non-patient and non-infectious samples only.