

Genomics Sample Prep Instructions

What's Inside

- Volume and concentration requirements
- Shipping and packaging tips
- Sample storage options
- Psomagen service benefits

Primary Sample Requirements

Type	Size	Preparation & Shipping	Storage
Venous Whole Blood	2 ml	<ul style="list-style-type: none"> Collect minimum of 2 ml of venous whole blood in EDTA coated vacutainer (BD), PAXgene Blood DNA Tube (QIAgen) or 3 ml of venous whole blood in Zymo DNA/RNA Shield Blood Collection Tube Store collected blood at 4°C Ship at room temperature 	Samples received within 5 days of collection.
Saliva	1 ml	<ul style="list-style-type: none"> Collect in DNA Genotek® Oragene® DISCOVER collection kit Follow manufacturer's instructions for collection Ship at room temperature 	Samples stored at room temperature for up to 5 years; indefinitely at -15-25 °C
Cell Pellet	1,000,000 cells/pellet	<ul style="list-style-type: none"> >1,000,000 cells Cryopreserve or store as cell pellet Ship on dry ice 	Samples stored at -15-25 °C indefinitely
Frozen Tissue	10-30 mg	<ul style="list-style-type: none"> Store in Invitrogen™ RNAlater™ stabilization solution at -15 to -25°C Ship on dry ice 	Samples stored at -15-25 °C indefinitely
Formalin-Fixed, Paraffin-Embedded (FFPE) Tissue	Minimum of 4 sections, > 10 µm thick	<ul style="list-style-type: none"> Roll FFPE tissue section using a scalpel, then insert into centrifuge tube Samples should be unstained and unbaked Ship at room temperature 	Samples stored at room temperature indefinitely
Plasma or Serum	200 µl	<ul style="list-style-type: none"> Isolated within 7 days of collection from venous whole blood in Streck Cell-Free DNA BCT tube Ship on dry ice 	Samples stored at -65-85 °C indefinitely
Swab	1 swab	<ul style="list-style-type: none"> We recommend Copan® 4N6FLOQSwabs® Casework tube for sample collection Follow manufacturer's instructions Ship at room temperature 	Samples stored at room temperature for up to 6 months
Stool	Up to 200 mg	<ul style="list-style-type: none"> Collect in a DNA/RNA Shield Fecal Collection Tube Ship on dry ice 	Samples stored at -65-85 °C indefinitely
Urine	Up to 25 ml	<ul style="list-style-type: none"> Collect in Zymo Urine collection cup Ship on dry ice 	Samples stored at -15-25 °C indefinitely
Nail	10-25 mg	<ul style="list-style-type: none"> Clean, polish-free clippings in standard tube Ship at room temperature 	Samples stored at room temperature indefinitely

Nucleic Acid Sample Requirements

Type	Size	Preparation & Shipping	Storage
Genomic DNA	Minimum concentration: 20 ng/μl See each application for amount	<ul style="list-style-type: none">• Recommend TE buffer (10 mM Tris/1 mM EDTA)• Genomic DNA must be intact• Recommended DIN score of >7.0• Ship in blue or dry ice sufficient to keep sample at desired temperature during shipping	Ship in blue or dry ice sufficient to keep sample at desired temperature during shipping
Library Submission	Minimum concentration: 5nM in at least 35μl	<ul style="list-style-type: none">• Library must be compatible with the Illumina platform• Libraries and pooled libraries accepted	Ship in blue or dry ice sufficient to keep sample at desired temperature during shipping

Other Packaging & Shipping Tips



If you are submitting a 96-well plate, organize your samples vertically and label with a unique identifier no more than 15 characters



If you are submitting single tubes, label the lid or side with a unique identifier no more than 15 characters



Temperature controlled shipping is required. In summer months, please add additional cold packs



Specific and accurate sample information is required such as sample type, buffer, concentration, volume, extraction method, library method, sequencing run information



Indicate sample concentration and volume in your NGS order sheet. See above for recommended concentrations



Samples will be retained for 3 months post project completion

Shipping Requirements

1



Label your samples with their unique sample IDs no more than 15 characters

2



Place all samples in a leak-proof container with absorbent materials

3



Send samples and NGS order sheet using UPS or FedEx overnight to:

Psomagen, Inc.
1330 Piccard Drive
Suite 103
Rockville, MD 20850, USA

Please contact your sales representative as necessary to determine your experiment's unique needs.

inquiry@psomagen.com 301-251-1007

Why Psomagen?

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