

RNA SEQUENCING SAMPLE PREP INSTRUCTIONS

Primary Sample Requirements

Type	Size	Preparation & Shipping	Storage
Cell Pellet	500,000 to 1,000,000 cells/pellet	<ul style="list-style-type: none"> Store in Invitrogen™ RNAlater™ stabilization solution Ship on dry ice 	Samples stored at -15 to -25°C indefinitely
Frozen Tissue	10-30 mg	<ul style="list-style-type: none"> Store in Invitrogen™ RNAlater™ stabilization solution Ship on dry ice 	Samples stored at -15 to -25°C indefinitely
Formalin-Fixed, Paraffin-Embedded Tissue (FFPE)	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"> Store at -65 to -85°C Ship on dry ice 	Samples stored at -65 to -85°C indefinitely
Venous Whole Blood	2 mL	<ul style="list-style-type: none"> Use QIAGEN PAXgene™ Blood RNA tube for sample collection Incubate blood at room temperature for at least two hours, then refrigerate Ship on cold packs 	Samples stored at 2-8°C for up to 5 days.
Swab	1 swab	<ul style="list-style-type: none"> We recommend Copan® 4N6FLOQSwabs® Casework tube for sample collection Follow manufacturer's instructions Store and ship at room temperature 	Samples stored at room temperature for up to 5 days.
Stool	Up to 200 mg in a standard tube	<ul style="list-style-type: none"> Store at -80°C Ship on dry ice 	Samples stored at -65 to -85°C indefinitely
Viable Cells*	100,000 to 500,000 cells/mL	<ul style="list-style-type: none"> Viability > 90% Cryopreserve in liquid nitrogen using the 10x Genomics protocol Ship on dry ice or deliver on ice 	Samples stored at -140°C indefinitely. Fresh, live cells deliver on ice packs to Psomagen within hours of processing
Saliva	1 ml	<ul style="list-style-type: none"> We recommend DNA Genotek® ORAcollect•RNA collection kit for sample collection Follow manufacturer's instructions for collection Store and ship at room temperature 	Samples stored at room temperature for up to 3 days

*For single-cell sequencing projects only.

Nucleic Acid Sample Requirements

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

Why Psomagen?

- ✓ Fast turnaround
- ✓ US-based processing
- ✓ Superior data quality
- ✓ Ph.D. level support
- ✓ CLIA and CAP certified labs



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

Other Packaging & Shipping Tips

If you are submitting a 96-well plate, organize your samples vertically and label with a unique identifier.

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 ice 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 concentration minimums.

Samples will be retained for 3 months post project completion.

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