

mRNA Sequencing

Sample Amounts and Concentrations

Desired Library	Amount & Concentration Total RNA	Container
Illumina Stranded mRNA Prep incl.(poly(A) enrichment	Provide total RNA ($\geq 0.5 \mu\text{g}$ per sample with $\geq 10 \text{ ng}/\mu\text{l}$; DNase treated) in $\geq 20 \mu\text{l}$	1-24 samples: tubes or 96-well PCR plate >24 samples: 96-well PCR plate
Illumina Stranded Total RNA Prep with Ribo-Zero Plus	Provide total RNA ($\geq 0.5 \mu\text{g}$ per sample with $\geq 10 \text{ ng}/\mu\text{l}$; DNase treated) in $\geq 20 \mu\text{l}$	1-24 samples: tubes or 96-well PCR plate >24 samples: 96-well PCR plate

Remarks:

- It is strongly recommended to quantify RNA by a fluorometric method, e.g. RiboGreen®, Qubit®, etc.
- RNA samples are preferably dissolved in RNase-free water or in the elution buffer of the isolation kit used.
- The quality of the RNA should be in the range of RIN 7-10 (>6 is strongly recommended).
- Ship RNA samples on dry ice.
- If you would like to send samples for isolation, please refer to our user guide for isolating samples for mRNA sequencing.

Sample Preparation

When preparing your samples, please ensure that your samples are placed in 1.5 ml tubes. Screw-capped tubes are the most robust and secure tubes (no accidental lid opening). If you are using snap cap tubes, we recommend that you use Safe-Lock/ SafeSeal tubes (less risk of accidental lid opening).

When using 96-well plates, use low DNA/RNA affinity plates (PCR plates) and apply proper sealing (heat sealing or 8 cap strips).



Sample Shipment / Order Form Completion

Prior to shipping your sequencing samples to Microsynth, please proceed as follows to complete your order form:

1. Enter our webshop at <https://srvweb.microsynth.ch/>
2. For <24 samples, hover over „**Tube Sequencing**” under Next Generation Sequencing and click on “**Illumina DNA/RNA Shotgun Sequencing**”, else click on “**Plate Sequencing**”.
3. Fill in the order form and submit your order. Feel free to communicate any specific requirements or provide additional information using the comment field and file upload options.
4. Prepare your samples according to this User Guide or in case of isolation according to the RNA isolation User Guide.
5. If you have ordered DNA/RNA isolation along with NGS analysis, please select an appropriate Next Generation Sequencing entry point and select “Material for Isolation” for Sample Types.
6. Send your samples together with the printout to Microsynth AG according to the listed conditions, adding “NGS” or “Isolation” to the address.

Need More Information?

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