



MYcroarray.com

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Sample preparation for shipment to MYcroarray

This two page document will help you prepare and ship your samples safely to Mycroarray. Please read the full document carefully. *Failure to ship samples correctly may result in significant delays and added costs.*

RNA Isolation

We recommend sending total RNA. RNA extraction should be followed by an affinity column clean-up step (e.g., RNEasy columns). We only accept RNA samples with:

- 1) **A260/A280** ratio of **1.9 – 2.1**,
- 2) **rRNA ratio** of **>1.2** (e.g., 23S/16S for bacteria).

A \$50 processing fee will be charged per sample for any sample out of this range or degraded, and a replacement sample will be requested.

How Much RNA to Send?

For bacterial samples, we require at least **30 micrograms**.

For eukaryotic samples, we require at least **10 micrograms**.

Ethanol Precipitation

We require that your total RNA be sent as an **ethanol precipitate in suspension** (i.e., please vortex but do **not** centrifuge the RNA following addition of salt and ethanol).

We routinely use the following recipe:

Please use RNase/DNase free reagents and disposables.

- 1) Please Qs with water to a consistent volume (please see “sample volume” below).
- 2) Add 0.1 volume of 3M sodium acetate to the sample and mix by gentle vortex.
- 3) Add 2.5 volumes of 100% ethanol and mix by gentle vortex. **Please do not centrifuge.**
- 4) Store precipitate at -80C.
- 5) Please ship overnight on dry ice.

Sample Volume

Please adjust your sample volumes with RNase/DNase free water such that the final ethanol precipitate volume is 500uL. Please Qs your RNA to 139uL with nuclease free water and add 13.9uL 3M sodium acetate and mix. Finally add 347.1uL of 100% ethanol and mix.

Shipment Container

To avoid evaporation and spillage during shipment, we highly recommend the use of 1.5ml polypropylene screw capped tubes (RNase and DNase free) with an O-ring in the cap. Please do not use the kind of cap where the cap's threads insert into the tube as this type tends to leak. For safety, the screw cap tubes may be placed inside a 15 or 50ml centrifuge tube. ***We will reject samples sent in snap capped tubes!***

Sample Documentation

Please provide a type written document with the following information for each sample:

- 1) Sample name or designation.
- 2) Experimental condition designation (for example, "test" and "control" or "A" and "B" if you prefer the conditions to be blinded). This information is essential for the analysis (to be able to group samples appropriately)
- 3) A260/A280 ratio.
- 4) rRNA ratio.
- 5) Amount of RNA in ug.
- 6) Total volume of each sample.
- 7) Volume of 3M sodium acetate.
- 8) Volume of 100% ethanol added.

Shipping Address

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5692 Plymouth Road
Ann Arbor, MI 48105
USA