

MICROARRAY FACILITY

Mount Sinai School of Medicine

Form #: B01v4

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Effective Date: 09/10/05

Affymetrix Full Service Sample Submission Guidelines

Submit your sample to Microarray Facility Affymetrix Core @ Annenberg 19-241

- Before submitting your sample, please make sure the good quality of your RNA (e.g. OD 260/280 ratio, denatured RNA gel). The success of the sample preparation as well as the microarray experiment is highly dependent on the quality of your initial RNA.

To submit your RNA samples, **5-10 μg ^{1,2,3}** or **60-200 ng ^{1,2,4}** of total RNA last purified on a Qiagen RNeasy column is recommended. The RNA should be suspended in RNase-free water at a concentration of **1 $\mu\text{g}/\mu\text{l}$** in a **1.5 ml** tube or **25 $\text{ng}/\mu\text{l}$** in a **0.5 ml** tube (please reference our protocols for RNA isolation).

Note: due to a difficulty on getting the requested RNA concentration to start the process, we will check your RNA concentration and 260/280 ratio in addition to Agilent analysis before we proceed. We'll charge \$ 5 per sample for the labor if the additional work is needed to unify the concentration across samples.

To submit your RNA samples,

1. Fill out an “**Affymetrix Sample Submission Form**” in advance.
2. Label your samples on the tube in the following way:
 - a. **Numerically**
 - b. **PI's initial**
 - c. **Date**For example: #1, TC, 2/25/02; #2, TC, 2/25/02, etc.
3. Clearly refer the label on the tube back to the ‘sample information’ on the form.
For example: #1: 3T3_untreated, #2: 3T3_treated with IFN , 4hr, #3: 3T3_treated with IFN, 8 hr, etc.
4. Please **call ahead @ x44147** for sample deposit.
5. The samples should be transported on dry ice if already frozen.
6. Remember - if you wish to use your own genechip arrays, submit the arrays together with your samples. They should be labeled with PI's initial and date.
7. We currently stock Hu133 Plus 2.0 arrays and Moe 430 Plus 2.0 arrays in the facility. We also take orders for any other type of arrays (by package).

* To avoid the additional charge and remain on schedule, please make your RNA concentration as accurate as possible.

* We can only put you on schedule when the samples are submitted.

1. The requested RNA amount is based on the yield from the Qiagen RNA purification method.
2. RNA purified by other methods is accepted upon request.
3. RNA quantity less than 3 μg is accepted upon request.
4. RNA quantity less than 50 ng is accepted upon request.

Note: Qiagen RNeasy column is not compatible with microRNA assay.