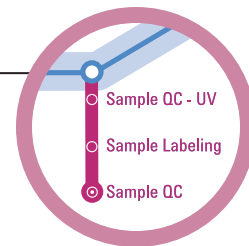


# Better sample preparation – all with less RNA!



Agilent offers sample preparation solutions that help ensure you get more meaningful microarray results.

- Quality Control (QC) your prepared RNA to be sure it is intact and not degraded by using the popular Agilent RNA LabChip® Assays and 2100 bioanalyzer
- Start with less RNA and get enough labeled sample to complete a microarray experiment by using Agilent's Labeling Kits
- Quickly determine the quality of labeled samples using Agilent-recommended UV-based QC procedures

## LabChip Technology for fast and efficient quality control of RNA



The industry-standard Agilent 2100 bioanalyzer benchtop microfluidics system. Assays kits include RNA, DNA, Protein and Cell analysis kits.

### RNA Assay Kits—Characteristics

- 30-minutes run time
- 11 to 12 samples/chip
- 1  $\mu$ L of sample required

#### RNA 6000 Nano Kit (5065-4476)

- Qualitative range (5-500 ng/ $\mu$ L total RNA) (25-250 ng/ $\mu$ L mRNA)
- Quantitative range (25-500 ng/ $\mu$ L total RNA) (25-250 ng/ $\mu$ L mRNA)

#### RNA 6000 Pico Kit (5065-4473)

- Qualitative range (200-5000 pg/ $\mu$ L total RNA) (500-5000 pg/ $\mu$ L mRNA)

## High performance Labeling Kits for Oligo and cDNA Microarrays

Enabling, time-saving labeling with new features such as low sample input and single tube amplification procedures.

- Kits provide added convenience and ease of use
- Efficient 2-color labeling format reduces experimental variability
- Low sample requirements broaden experimental capabilities
- Tuned to enhance the performance of all Agilent microarrays

### Amplified cRNA\* Labeling for Oligo Microarrays or Amplified cDNA Labeling for cDNA Microarrays

Low RNA Input Fluorescent Linear Amplification Kit (5184-3523)

- Low sample input – as little as 50 ng total RNA
- Patented, simple single tube procedure takes only 6 hours (cRNA) or 10 hours (cDNA)
- Comparable to the Eberwine procedure, typical 200-300 fold amplification in a SINGLE TUBE
- Simple protocol that provides the flexibility of producing either cyanine 3- or cyanine 5-labeled cRNA or cDNA – all in one convenient kit
- Limit of detection of 1 mRNA copy per  $10^4$  cells on Agilent's microarrays

### cDNA Labeling for cDNA or Oligo Microarrays

Fluorescent Direct Label Kit (G2557A)

- Optimized reagents to convert target mRNA to cyanine 3- or cyanine 5-labeled cDNA
- Minimum sample –10  $\mu$ g total RNA or 200 ng poly-A+ RNA
- Sensitivity of 3 mRNA copies per  $10^6$  cells on Agilent's microarrays
- 3-4 hour protocol depending on number of samples

\* Agilent also provides a Fluorescent Linear Amplification Kit (G2554A) for Oligo Microarrays, where sample volume is not an issue. Requires only 5  $\mu$ g total RNA or 200 ng poly A+ RNA.



Information, descriptions and specifications are subject to change without notice. For more information, visit [www.agilent.com/chem/dna](http://www.agilent.com/chem/dna).



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