

## Required and Recommended Protocols and Kits for Oligonucleotide Arrays

**In order to qualify for the Data Sharing Program, there are two requirements: the spikes and the scanner.**

**All arrays must be processed with the spike-in kit, so that QA/QC metrics may be evaluated.**

Agilent RNA Spike-in Kit, One-Color (5188-5282)

Agilent RNA Spike-in Kit, Two-Color (5188-5279)

**In addition, Feature Extraction software requires that the arrays be scanned on one of the following scanners.**

Agilent Scanner G2565BA

GenePix Scanner Axon 4000A\* or Axon 4000B

\*NOTE: This scanner will NOT be acceptable with higher density arrays (4 x 44K format) that must be scanned at 5 micron resolution.

**EcoArray and Agilent highly recommend the following equipment, protocols, and kits be used for optimal results:**

### ***Equipment:***

Agilent Microarray hybridization chambers	G2534A
Agilent Gasket slides (For 22k-gene arrays)	G2534-60003 (1 array/slide)
Agilent Gasket slides (For 2k gene arrays; 11k features)	G2534-60002 (2 arrays/slide)
Agilent Hybridization oven	G2545A
Agilent 2100 Bioanalyzer	G2938C or G2940C or G23943C
NanoDrop Spectrophotometer	ND -1000

### ***For labeling, use one of these kits:***

Agilent Low RNA Input Linear Amplification Kit	(5184-3523) (Plus Cy-3 and Cy-5 dyes)
Agilent Low RNA Input Linear Amplification Kit PLUS, One-Color	(5188-5339) (Includes cy-3 dye)
Agilent Low RNA Input Linear Amplification Kit PLUS, Two-color	(5188-5340) (Includes both cy-dyes)

***For hybridization and washing:*** Follow the Agilent 60-mer oligo microarray processing protocol and use the:

Gene Expression Hybridization Kit	(5188-5242)
Gene Expression Wash Buffer 1	(5188-5325)
Gene Expression Wash Buffer 2	(5188-5326)
Stabilization and Drying Solution (Wash 3)	(5185-5979)