

Materials List for:

# DNA Microarrays: Sample Quality Control, Array Hybridization and Scanning

Elva Diaz<sup>1</sup>, Gustavo A. Barisone<sup>1</sup>

<sup>1</sup>Department of Pharmacology, University of California, Davis

Correspondence to: Elva Diaz at [ediaz@ucdavis.edu](mailto:ediaz@ucdavis.edu)

URL: <https://www.jove.com/video/2546>

DOI: [doi:10.3791/2546](https://doi.org/10.3791/2546)

## Materials

Name	Company	Catalog Number	Comments
2100 Bioanalyzer	Agilent Technologies	G2943CA	Includes chip priming station, vortexer, software and laptop computer
2100 Bioanalyzer electrophoresis set	Agilent Technologies	G2947CA	
RNA 6000 Nano kit	Agilent Technologies	5067-1511	includes size ladder, marker, gel matrix, dye, electrode cleaners, spin filters and nanochips
RNase Zap	Applied Biosystems	AM9780M	
Quick Amp labeling kit, two-color	Agilent Technologies	5190-0444	
RNeasy mini kit	Qiagen	74104	
Gene Expression Hybridization Kit	Agilent Technologies	5188-542	Includes Blocking agent, Fragmentation buffer and Hybridization buffer
Gene Expression Wash Buffer Kit	Agilent Technologies	5188-5327	Includes Wash Buffers 1 and 2 and Triton X-102
Hybridization Station	Roche Group	05223652001	4-slide model
Hybridization System Accessory Kit	Roche Group	05327695001	Contains verification assembly for testing mixing, replacement O-rings, disassembly tool, forceps and brayer
A4 mixer hybridization chambers			
Whole Human Genome (4x44) Oligo Microarray	Agilent Technologies	G4112F	
Positive displacement pipette	Gilson, Inc.	F148504	
Capillary pistons for positive displacement pipette	Gilson, Inc.	F148415	
Microarray dryer	Nimblegen	05223636001	
Microarray fluorescent scanner, Axon GenePix 4000B	Molecular Devices	GENEPIX4000B	
GenePix Pro 6.0 software	Molecular Devices		