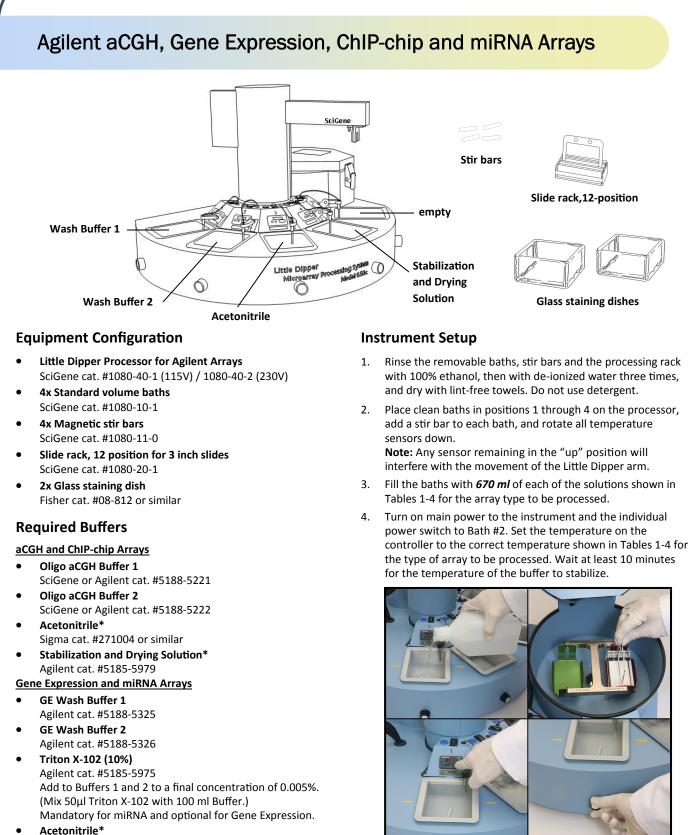
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Sigma cat. #271004 or similar

- Stabilization and Drying Solution\* Agilent cat. #5185-5979
  - \*Used in Protocol Version B without ozone control.

Fill baths, insert balance rack and then set temperature and stir bar speed.

Continued on next page.

# Instrument Setup (continued)

#### Table 1. Little Dipper Programs for CGH Arrays.

CGH Arrays Processed with Ozone Control (Agilent Protocol A) Program Name: CGH-A					
Step	Bath	Buffer	Temp (°C)	Agitation	Time (sec)
1	1	aCGH Buffer 1	RT	250	300
2	2	aCGH Buffer 2	37°	250	60
3	С	N/A	N/A	N/A	300
CGH Arrays Processed <i>without</i> Ozone Control (Agilent Protocol B) Program Name: CGH-B					
1	1	aCGH Buffer 1	RT	250	300
2	2	aCGH Buffer 2	37°	250	60
3	3	acetonitrile	RT	250	10
4	4	Stabiliz+drying	RT	250	30

#### Table 2. Little Dipper Programs for miRNA Arrays.

miRNA Arrays Processed with Ozone Control (Agilent Protocol A) Program Name: miRNA-A					
Step	Bath	Buffer	Temp (°C)	Agitation	Time (sec)
1	1	GE Buffer 1+Triton	RT	250	300
2	2	GE Buffer 2+Triton	37°	250	300
3	С	N/A	N/A	N/A	300

#### Table 3. Little Dipper Programs for Gene Expression Arrays.

Gene Expression Arrays Processed with Ozone Control (Agilent Protocol A) Program Name: GE-A						
Step	Bath	Buffer	Temp (°C)	Agitation	Time (sec)	
1	1	GE Buffer 1 <sup>s</sup>	RT	250	60	
2	2	GE Buffer 2 <sup>s</sup>	37°	250	60	
3	С	N/A	N/A	N/A	300	
Gene Expression Arrays Processed <i>without</i> Ozone Control (Agilent Protocol B) Program Name: GE-B						
1	1	GE Buffer 1 <sup>s</sup>	RT	250	60	
2	2	GE Buffer 2 <sup>s</sup>	37°	250	60	
3	3	acetonitrile	RT	250	10	
4	4	Stabiliz+drying	RT	250	30	

<sup>S</sup> At your option, you may add Triton X-102 to a final concentration of 0.005% in GE Buffer 1 and 2 for Gene Expression Arrays.

### Table 4. Little Dipper Programs for ChIP-chip Arrays.

ChIP-chip Arrays Processed with Ozone Control (Agilent Protocol A) Program Name: Chip-A						
Step	Bath	Buffer	Temp (°C)	Agitation	Time (sec)	
1	1	aCGH Buffer 1	RT	250	300	
2	2	aCGH Buffer 2	31°	250	300	
3	С	N/A	N/A	N/A	300	
ChIP-chip Arrays Processed <i>without</i> Ozone Control (Agilent Protocol B) Program Name: Chip-B						
1	1	aCGH Buffer 1	RT	250	300	
2	2	aCGH Buffer 2	31°	250	300	
3	3	acetonitrile	RT	250	10	
4	4	Stabiliz+drying	RT	250	30	

## Load Arrays / Start Protocol

- Fill both glass staining dishes with room temperature aCGH Buffer 1 or GE Wash Buffer 1, consistent with the type of array to be processed. Place the 12-position slide rack into one of the dishes.
- If running CGH-A, miRNA-A, GE-A or Chip-A protocols which incorporate a centrifugal drying step, place a balance rack into the red bucket of the centrifuge with the same number of slides to be processed. Consult the Little Dipper Operations Guide for details.
- 3. Disassemble the Agilent SureHyb chamber or SciGene Mai Tai Cassette and sequentially remove the array-gasket slide sandwich and place it in one of the staining dishes. Separate the array from the gasket slide and place the array in the 12 position rack in the second staining dish.
- 4. Once all the arrays to be processed are placed in the slide rack (12 max), move it to Bath #1.
- Using the touch screen, select the program that matches the array type and protocol version (A or B) shown in Tables 1-4. Start the protocol program.
- 6. Mount the rack on the robot arm as show in the Little Dipper Operations Guide.
- 7. At the completion of "A" type wash protocols, arrays are recovered from the centrifuge ready for scanning. For "B" type wash protocols, the rack of arrays is slowly withdrawn from the solution after which the rack is released from the gripper through the touch screen.
- 8. Remove the arrays from the rack and place in a slide box to await scanning.
- 9. Dispose of wash buffers immediately after use. Wash the baths, stir bars and processing rack with warm water, rinse 3 times with de-ionized water and dry with lint-free towels. Do not use detergents to clean baths. Store the baths in a dust-free environment ready for the next use.

— End Protocol —

