

Procedure 2.5 – cDNA Quality Control

Date: _____

Experiment ID: 2.5-~~5555~~mmdd

Technician: _____

Project: _____

Client Signature: _____

Prepare Quality Control Hybridization Samples

1. Combine the following.

Cy3-QColigo (140ng/ul)	2 ul	_____
Cy5-QColigo (1ug/ul)	1 ul	_____
cDNA Hybridization Solution	28 ul	_____
Nuclease-free Water	15 ul	_____

Mix carefully to avoid air bubbles forming.

2. Incubate at 95C for two minutes.

Hybridize Microarrays

- 1. Briefly centrifuge samples to collect condensation.**
 - 2. Place microarray(s) into the bottom of a Corning hybridization cassette.**
 - 3. Pipette 35ul of hybridization sample onto a clean cover slip.**
 - 4. Invert the cover slip with a wafer tool and place onto the microarray.**
 - 5. Place the top of the cassette onto the bottom and clamp them together.**
 - 6. Incubate in 50C water bath for 2 hours.**
 - 7. Record microarray lot numbers and bar codes:**
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Microarray Wash

1. Remove microarrays from water bath and gently dry off as much as possible.
 2. Disassemble the cassettes.
 3. Remove the cover slips by immersing the microarrays in 50C Wash solution 1 in a 250mL beaker. (Procedure 6.3.1) _____
 3. After removing coverslip place microarray into a rack in a glass histology dish containing 50C wash solution 1.
 4. Place on orbital shaker and rotate at speed 3 for 5 minutes in the dark.
 6. Transfer microarrays to a second dish containing wash solution 2. _____
 7. Rotate for 5 minutes.
 8. Transfer microarrays to a third dish containing wash solution 3. _____
 8. Rotate for 5 minutes.
 11. Transfer microarrays to a fourth dish containing wash solution 4. _____
 12. Rotate for 5 minutes.
 2. Dry microarrays by centrifuging in 50ml conical tubes with the barcode down for 5 minutes at 600 rpm.
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Scan the microarrays as described in Appendix 7.4