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Working

Enzo's CGH Labeling Kit for Oligo Arrays

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STEPS MATERIALS

NAMECATALOG #VENDORPB binding buffer19066Qiagen

Denature DNA and anneal random primers

- 1 pipette the following in a nuclease free thermocycler strip:
 - a. DNA X µl
 - b. water 19 X μ l (Vial W)
 - b. Primers/Reaction buffer 20 µl (Vial 1)

Total volume: 39 µl

- Add cap, flick to mix contents and briefly spin down
- 3 Heat at § 99 °C for © 00:10:00
- 4 Place in a cooled 96 well rack on ice 8 4 °C for © 00:05:00
- 5 Centrifuge briefly

Extend Primers with Klenow Exo-DNA Polymerase

- 6 Add, while samples are on ice § 4. °C:
 - a. To test sample 10 µl Cy3 (Vial 2)
 - b. To reference sample 10 μ l Cy5 (Vial 3)
 - c. Klenow Exo-DNA Pol 1 µl (Vial 4)

Total 50 µl

- 7 Add cap, flick to mix contents and briefly spin down
- 8 Incubate at § 37 °C (04:00:00 for

9	Add 5µl of Stop Buffer (Vial 5), mix, and briefly centrifuge
Removal of uncoupled nucleotides	
10	Transfer labelled DNA's to 1.5 ml reaction tubes and keep Cy3 and Cy5 labelled DNA's separated
11	Add 275 µl of Binding Buffer (PB) PB binding buffer by Qiagen Catalog #: 19066
12	Load column and centrifuge for 60 seconds at 16,000g and discard flow through
13	Add 650 µl of Wash Buffer (PE), centrifuge 60 seconds at 16,000g and discard flow through
14	Centrifuge for 60 seconds at 16,000g, discard centrifuge tube and place column in fresh 1.5 ml centrifuge tube
15	Add 10.5 μ l of Elution Buffer (EB) (middle of the filter) and incubate for 1 minute.
16	Centrifuge for 60 seconds at 16,000g
17	Add 10.5 μ l of Elution Buffer (EB) (middle of the filter) and incubate for 1 minute
18	Measure yield and specific dye incorporation with NanoDrop, Program MicroArray. Labelled, cleaned up gDNA can be stored at -20°C in the dark for 7 days.
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