SIGNALCHEM DIAGNOSTICS

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INSTRUCTIONS FOR USE

Product Name: DNA Selection Beads **Catalog # DSB01-D291**

Step 1. Leave the selection beads at room temp for 30 min prior to use to equilibrate.

Step 2. Vortex or pipette up and down 10 times to mix the beads thoroughly.

Step 3. Add the first round of selection beads to the sample and mix thoroughly. Incubate at room temp for 5 min.

Step 4. Add the second round of selection beads to the sample and mix thoroughly. Incubate at room temp for 5 min.

Step 5. Spin down the tube and place the tube on a magnetic stand.

Step 6. When the solution is clear (5 min wait), aspirate the supernatant and discard.

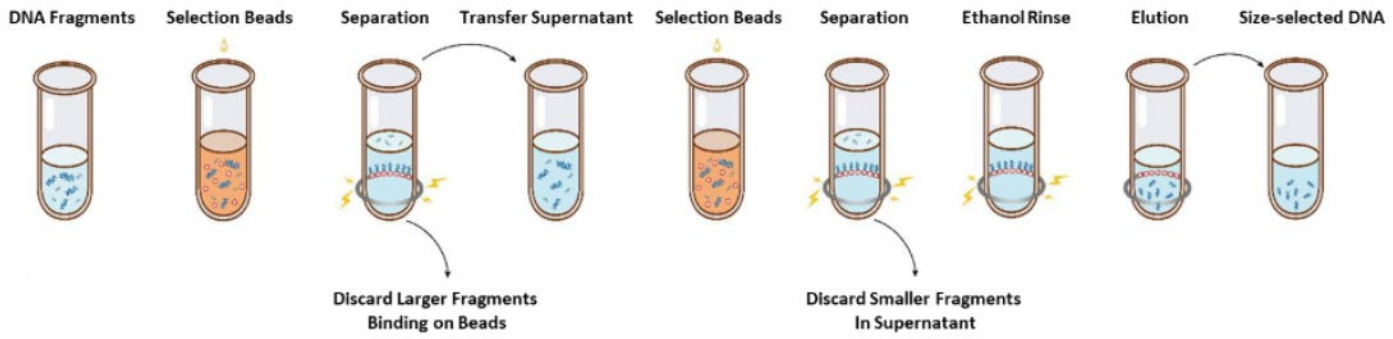
Step 7. Add 200µL of 80% Ethanol while on the magnetic stand. Incubate at room temp for 30 sec. Aspirate the ethanol and discard.

Step 8. Repeat the previous step one more time.

Step 9. Remove residual ethanol with 10µL pipette tips and lightly air dry the selection beads (~5min).

Over drying the beads may result in a lower recovery DNA target. Leave the tube open only part way.

Step 10. Remove the tube from the magnetic stand and add ≥20µL ddH_2O and mix thoroughly. Incubate at room temp for 5 min.



Recommended Conditions for DNA Size Selection:

Length of DNA Fragment	250-30 bp	320-420 bp	450-550 bp	550-70 bp	700-900 bp	800-1000 bp
Ratio of Beads: DNA for 1st Round	0.80x	0.70x	0.60x	0.55x	0.50x	0.45x
Ratio of Beads: DNA for 2nd Round	0.20x	0.20x	0.20x	0.15x	0.15x	0.15x

"x" refers to the volume of the sample DNA.

If the insert length is 250bp and the sample DNA volume is 100µL, the volume of beads used in the 1st round is 0.80x100µL=80µL.