Protocol 4: Deprotection and Purification of Synthetic DNA

CAUTION: *Wear gloves, use RNAase free materials.*

1. Carefully open the column and transfer CPG beads into a 1.5 ml screw-cap tube.

2. Add 500 µl of Conc. Ammonium hydroxide. Close the tubes tightly and seal with parafilm.

3. Incubate at 55 °C overnight. Cool to –20 °C for 10 minutes. Spin at max for 1 min and transfer supernatant to new 1.5 ml eppendorf tubes.

4. Dry above mix to a white powder in Speed Vac with Heat. Takes 4-5 hours.

5. Resuspend dried pellet in 100 µl TE, pH 7.5.

6. Further purify the DNA on a denaturing polyacrylamide gel. Load about 30 µl DNA + 30 µl 2XSLB mix/lane. Follow standard procedures for DNA identification by UV-shadowing and passive elution from gel slice.