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PROCEDURE FOR OLIGONUCLEOTIDE DEPROTECTION WITH 1,8-DIAZABICYCLO[5.4.0]UNDEC-7-ENE (DBU)

1. Carry out the synthesis DMT-off or DMT-ON according to preference.
2. Meanwhile make up a solution of 10% DBU in anhydrous methanol. DBU (1,8-Diazabicyclo[5.4.0]undec-7-ene) is available from Aldrich (13,900-9), as is anhydrous methanol (32,241-5). Mix 0.5mL DBU with 4.5mL methanol in a clean, dry 5mL septum-capped vial to give 10% DBU solution.
3. Transfer the CPG to a clean, dry glass vial and add 1mL of 10% DBU solution. Cap the vial tightly.
4. Place the vial in a dark place and leave it for 5 days at room temperature. Transfer the contents to a micro centrifuge tube and lyophilize to a small volume. Since DBU is quite involatile, it is not usually possible to reach dryness.
5. Add 1mL of 10mM aqueous sodium hydroxide solution and desalt or purify the oligo using standard procedures. Glen-Pak™ purification is especially effective.

