



A solvent-free synthesis of dihydropyrimidinones using a ruthenium(III) chloride catalyst has both significantly increased yield and reduced reaction time while avoiding the use of solvents such as ethanol, acetonitrile, dichloromethane, and tetrahydrofuran.

De, S. K.; Gibbs, R. A. Ruthenium(III) Chloride-Catalyzed One-Pot Synthesis of 3,4-Dihydropyrimidin-2-(1*H*)-ones under Solvent-Free Conditions. *Synthesis*. **2005**, (11), 1748-1750.

DNA purification kits avoiding the use of ethanol while simplifying the DNA purification process are available through many different vendors such as Qbiogene's GENE CLEAN kit.

"GENE CLEAN Kit" Qbiogene
<http://www.qbiogene.com/technical/protocols/dna-kits/pdf/GC.proto-7-03.pdf> 2006
<http://www.qbiogene.com/technical/profiles/>