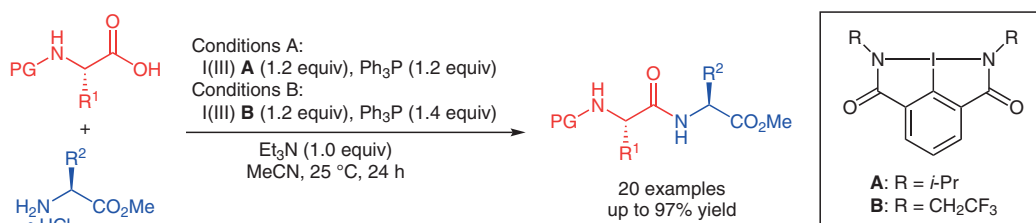
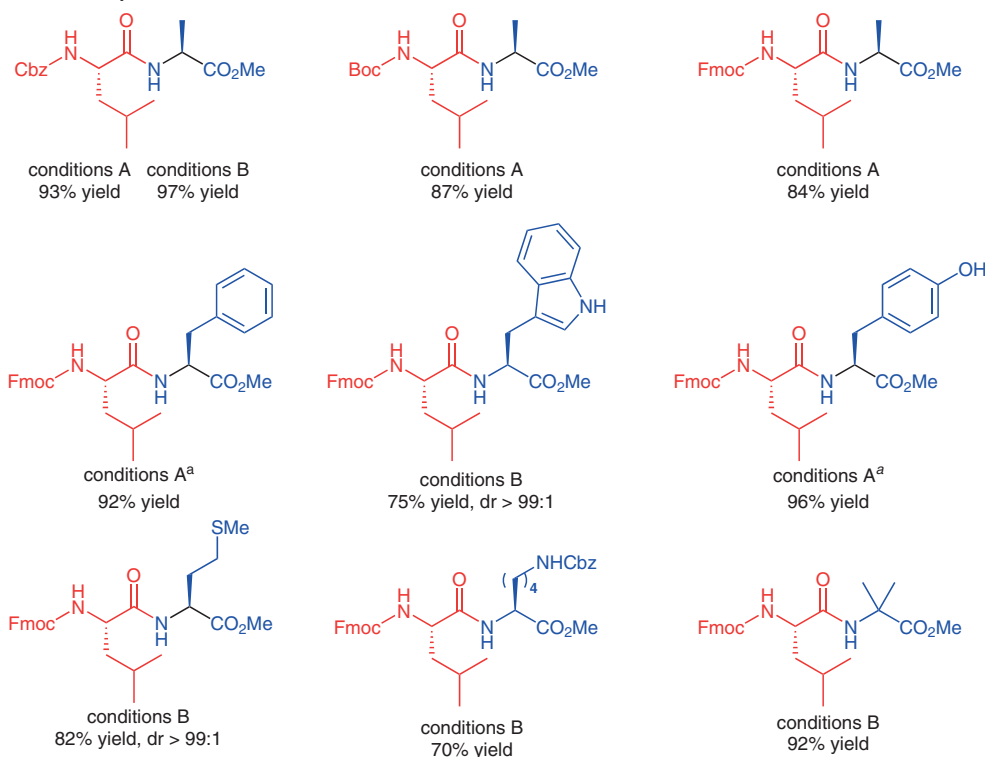


# Recyclable Bicyclic Benziodazolone-Mediated Peptide Coupling Reaction



## Selected examples:



**Significance:** The coupling reaction between carboxylic acids and amines using coupling reagents is generally used for the synthesis of peptides. However, this reaction generates a large amount of waste derived from the coupling reagent. The authors have developed a peptide coupling using recyclable bicyclic benziodazolones.

**Comment:** This coupling reaction using bicyclic benziodazolones **A** or **B** produced various dipeptides in high to good yield. After the reaction, **A** and **B** could be recovered as I(I) species. Also, electrochemical oxidation of this I(I) species reproduced **A** and **B**, and these regenerated **A** and **B** promoted a peptide coupling reaction.