Asymmetric Lithiation Trapping of \(\text{N}-\text{Boc}\) Heterocycles

**Significance:** The asymmetric lithiation trapping of various \(\text{N}-\text{Boc}\) heterocycles is disclosed, using \(s\)-BuLi and chiral diamines such as \((-\text{)}\)-sparteine and \((+\text{-})\)-sparteine surrogate at temperatures above \(-78^\circ\text{C}\). The corresponding chiral heterocycles are obtained in high yields and with good enantiomeric ratios.

**Comment:** The experiments can be conveniently performed, since asymmetric lithiation trapings of, for example, \(\text{N}-\text{Boc}\) pyrrolidine may be conducted at \(-30^\circ\text{C}\), still furnishing the chiral heterocycles with a high enantiomeric ration of about 9:1.

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