Evaluation of sparteine-like chiral diamines in the enantioselective lithiation-electrophilic trapping of an O-alkyl carbamate

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Supporting Information:

Chiral HPLC chromatograms for (–)- and rac-N-benzyl cytisine 19 and chiral shift NMR spectra of (+)-sparteine surrogate 12.
Chiral HPLC chromatograms for (−)- and rac-N-benzyl cytisine 19.

Chiral stationary phase HPLC was performed on a Gilson system with 712 controller software and a 118 UV/VIS diode array detector. Chiralcel OD, 20% iPrOH in heptane containing 0.1% Et₂NH, 0.5 cm³ min⁻¹, 254 nm, 18 min [(1R,9R)-19], 23 min [(1S,9S)-19].
Selected portions of the $^1$H NMR spectra of (+)-sparteine surrogate 12 and 3 equiv. of (S)- or (R)-2,2,2-trifluoro-1-(9-anthryl)ethanol.
Selected portions of the $^1$H NMR spectra of (+)-sparteine surrogate 12 and 3 equiv. of (S)- or (R)-2,2,2-trifluoro-1-(9-anthryl)ethanol.